

## **Additional Information Requirements For Waste Importation Projects**

Pursuant to Section 5(2) of the *Environmental Impact Assessment Regulation* of the Clean Environment Act, this document is intended to assist proponents in preparing a registration submission for projects involving the above-mentioned sector. It should be read in conjunction with the General Information Requirements as outlined in the latest version of the Registration Guide. Note that the following items are requirements **in addition to** those outlined in the Registration Guide. The information requested in the Registration Guide must also be provided. For further assistance, please contact the Project Assessment and Approvals Branch, Department of Environment at (506)-444-5382.

After reviewing a registration submission, the Technical Review Committee may require other information beyond the items listed below and in the Registration Guide.

Note: If your project involves the construction or decommissioning of a facility designed exclusively for the treatment, incineration, disposal or recycling of hazardous waste please contact the Canadian Environmental Assessment Agency, Atlantic Region at (902) 426-0564 to determine if your project requires a comprehensive study under the Canadian Environmental Assessment Act.

### **Definition**

This guideline is applicable to projects involving the importation of waste into New Brunswick. Registration under the *Environmental Impact Assessment Regulation* is required for all projects involving the disposal, destruction, recycling, reprocessing or storage of waste that originates outside New Brunswick and for all facilities or systems for the disposal, destruction, recycling, reprocessing or storage of such wastes.

A complete list of potential triggers for project registration is provided in Schedule "A" of the Regulation. To determine if registration is required for a specific project, please contact the Project Assessment and Approvals Branch at the number listed above.

### **1.0 THE PROPONENT**

See Registration Guide

### **2.0 THE UNDERTAKING**

#### **(ii) Project Overview:**

- Describe the type of waste material, its origin(s), the annual volume and tonnage of imported material, and the proposed fate of the waste material, (including the anticipated volume and fate of any waste material that will not be treated, recycled or reprocessed), the annual volume of any treated or recycled material, and the estimated life span of the project.

- If the purpose of the project is to treat contaminated material, the contaminants and their concentrations should be identified.

(v) Siting Considerations:

- Indicate whether the proposed project would be located in a greenfield or a brownfield (previously developed) site and indicate the justification for this location.
- Depending on the nature of the project, it may be appropriate to provide a characterization of the geology and hydrogeology of the proposed site.
- Characterize the potential for seismic activity at the site.
- Describe the anticipated socioeconomic issues resulting from the location of the facility.

(vi) Physical Components and Dimensions of the Project:

Provide a detailed description of the proposed project, addressing the requirements contained in the Registration Guide. For this class of project the required information includes but is not limited to the following:

- Ensure that the site plan shows the locations of all physical components of the project.
- Provide an indication of the design of the facility including all appropriate containment systems such as liners, leachate collection and/or treatment systems (if applicable), including as much detail about these components as possible.
- Provide a hydrogeological assessment of the surface and subsurface conditions in and around the facility. The assessment should include test pits, boreholes and/or monitoring wells and provide appropriate detail concerning stratigraphy, hydraulic conductivity, groundwater elevations, topography, flow directions and gradients at various depths. The information should be presented in sufficient detail to determine the flow path and ultimate receptor of a liquid contaminant if that contaminant were released in an uncontrolled fashion at the facility. To aid in interpreting the details, provide cross-sectional drawings of the site showing the stratigraphy, assumed groundwater surface(s) and hydraulic conductivities, where known. Provide a plan of current and future groundwater monitoring wells and surface water monitoring stations.

(viii) Operation and Maintenance Details:

Provide a detailed description of the proposed project's operation and maintenance characteristics, addressing the requirements contained in the Registration Guide. For this class of project the required information includes but is not limited to the following:

- Describe the nature and character of the wastes to be treated, recycled or disposed of. A full characterization of the waste stream is required in order to determine the expected contaminants and the order of magnitude of the expected concentrations of each contaminant in the waste.
- The volumes, chemical characteristics and planned discharge locations of process wastewater, storm runoff, leachate and domestic wastewater should be estimated.
- Provide a process description including a flow chart illustrating the movement of materials through the waste treatment system, and including details of the technologies to be employed.
- Based on the full characterization of the expected waste stream, and the technologies to be employed, the ability of the facility to treat these wastes to acceptable levels should be demonstrated.
- Describe the annual volume and tonnage of any feedstock (e.g. fuel for incinerator, raw materials to be mixed with the waste, etc.).
- Provide details of transportation, handling, and storage of feedstock and other inputs, intermediate products, by-products outputs, fuels, chemicals etc.
- Provide a description of the locations, methods and volumes of waste storage.
- Describe the fate of (market for) the treated/recycled material.
- Describe the proposed site drainage including any piping, containment and treatment including any wastewater treatment technologies to be employed.
- Indicate the process and potable water requirements and water sources.
- Describe any sewage treatment facilities that will be necessary.
- What are the annual power requirements and the proposed power source?
- What are the anticipated volumes and types of traffic associated with the movement of goods, services and personnel to and from the project site during the facility operation?
- Describe the fate of any treated materials (e.g. treated effluent, composted materials, etc.)
- Describe the expected treatment and/or disposal volumes on an annual basis.
- Note that any treated materials must meet applicable standards in order to remain in New Brunswick.

### **3.0 DESCRIPTION OF THE EXISTING ENVIRONMENT**

Include all relevant environmental features as noted in the Registration Guide. Examples of issues that may be of particular relevance to this class of project include but are not limited to the following:

- Existing geological and hydrological conditions at the receiving or processing site.
- Past, current or future projects, activities and land uses in the project area whose effects may interact with those of the project under review.

### **4.0 SUMMARY OF ENVIRONMENTAL IMPACTS**

All anticipated impacts should be described and discussed. These will depend on the scope and complexity of the project as well as the project location. See the Registration Guide for further information. Examples of impacts resulting from this class of project may include but are not limited to the following:

- All air emissions that may result from the operation of waste disposal facilities should be characterized, including emissions from point sources (e.g., stacks or vents), fugitive emissions, and emissions from area sources (e.g., wood waste storage piles, road dust). Estimates of the range of emissions from the above sources for normal conditions and abnormal conditions (accidents and malfunctions) should be provided. The type and volume of any anticipated emissions of greenhouse gasses must also be identified.
- Risks to groundwater and surface water resources from the operation of the facility should be understood and described by the proponent. Information on any proposed waste storage or chemical storage at the facility that may be a cause for water quality concerns should be provided.
- In the case of facilities that will involve the operation of chemical processes (e.g., soil treatment facilities, incineration facilities, hazardous waste treatment facilities), appropriate dispersion modeling studies should be conducted in order to determine the potential for adverse impacts to ambient air and water quality on a local and regional basis.
- Noise and odour impact on adjacent sensitive properties should be predicted and evaluated.

### **5.0 SUMMARY OF PROPOSED MITIGATION**

Describe all mitigative measures that will be employed to minimize the potential environmental impacts identified above. These may include but are not limited to the following:

- Environmental monitoring programs;
- A plan for the design and implementation of emergency and/or spill response procedures as well as potential remediation measures in the event of a spill, leak or upset;
- Control and containment systems to be implemented as part of the project to protect the environment; and
- A conceptual Closure Plan.

## **6.0 PUBLIC INVOLVMENT**

See Registration Guide.

## **7.0 APPROVAL OF THE UNDERTAKING**

See Registration Guide.

## **8.0 FUNDING**

See Registration Guide.

## **9.0 SIGNATURE**

See Registration Guide.

## **10.0 SUBMISSION INSTRUCTIONS**

See Registration Guide.

## **OTHER APPLICABLE GUIDELINES**

- Depending on the details of the waste disposal facility, it may be appropriate to also consult the guideline: [Additional Information Requirements for Wastewater Treatment Projects.](#)
- Proponents may wish to consult the resources available at the website of Environment Canada's Transboundary Movement Branch at [http://www.ec.gc.ca/tmb/eng/tmbhp\\_e.html](http://www.ec.gc.ca/tmb/eng/tmbhp_e.html)