



NUCLEAR WASTE MANAGEMENT ORGANIZATION SOCIÉTÉ DE GESTION DES DÉCHETS NUCLÉAIRES

Phase 1 Preliminary Community Well-Being Assessment

TOWNSHIP OF SCHREIBER, ONTARIO



APM-REP-06144-0040

OCTOBER 2013

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Preliminary Community Well-Being Assessment: Schreiber, ON

OCTOBER, 2013



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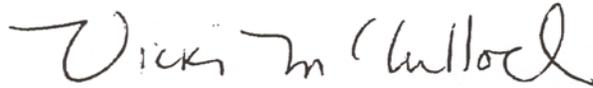
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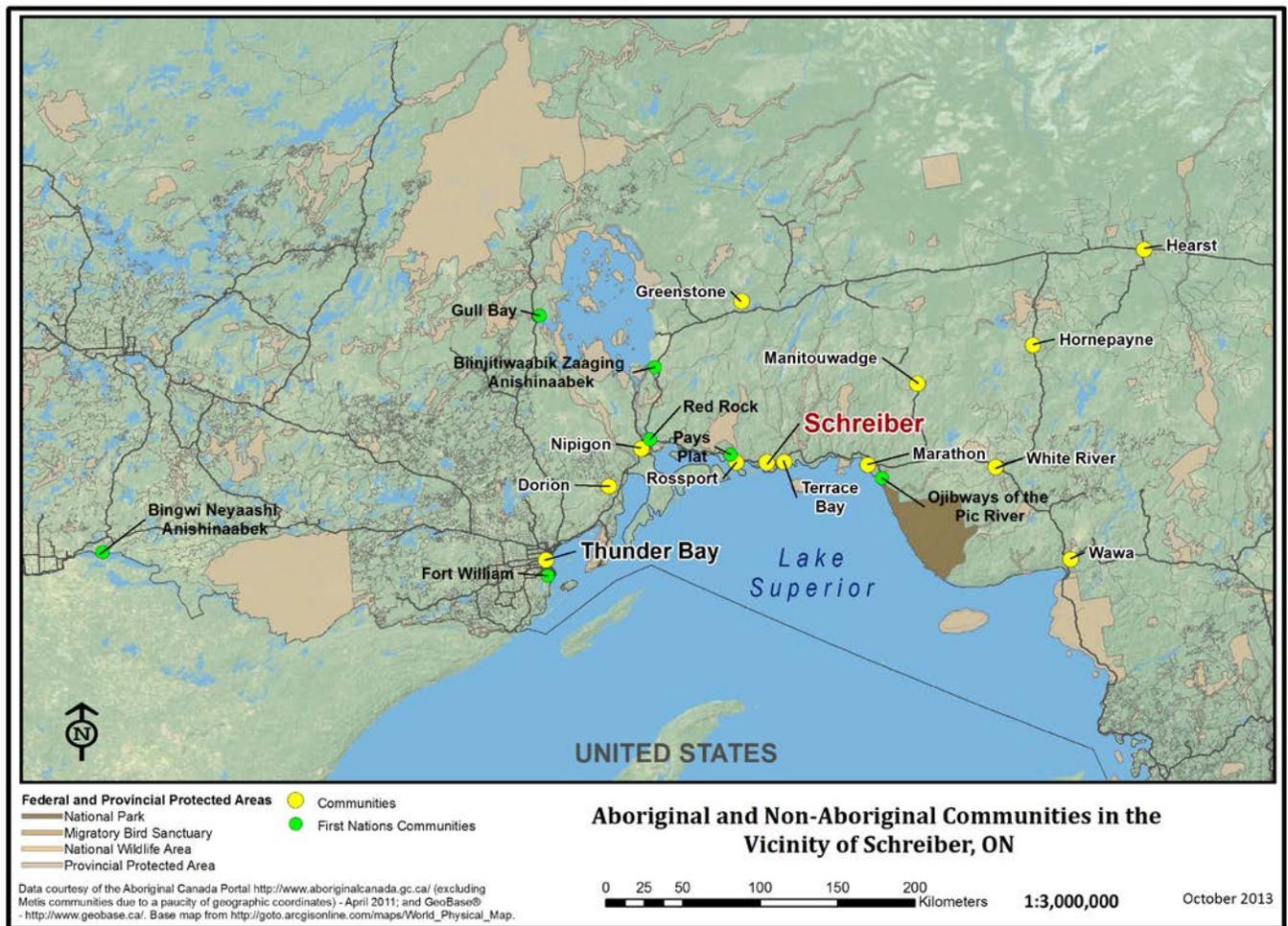
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1.0 INTRODUCTION

This Preliminary Community Well-being Assessment Report aims to provide a summary of the expected influences that the implementation of the Adaptive Phased Management (APM) Project would have on the overall community well-being of Schreiber, Ontario (see Figure 1). This report also seeks to answer some fundamental questions to assist the NWMO and the community in understanding the suitability of Schreiber to move forward in the siting process. While each of the communities currently participating in the ‘Learn More’ process will likely benefit in many ways from the APM Project and the economic development and employment opportunities associated with it, there are certain unique uncertainties and priorities to be managed for each community.

Figure 1: Schreiber, Ontario



Source: DPRA Canada, 2013

Work has been completed to understand the overall community profile of Schreiber¹, and to understand and summarize the ways in which the APM Project might affect the community and the surrounding areas. In concert with the community NWMO worked to develop an understanding of the community today and its goals and aspirations for the future. To this end information has been assembled and studied through a variety of means including, engagement activities, community visits and tours, one-on-one discussions, Community Liaison Committee meetings, open houses and the development of a community profile.

All of this research and study, along with professional judgement, is used in this report to understand the potential implications of the project to the community's well-being and gain insights into the unique uncertainties and priorities that need to be managed.

As outlined at the inception of this step in the site selection process, the objective of the social, economic and cultural assessment is to assess both the potential to foster the well-being of the community and surrounding area and the potential to create the foundation for community and surrounding area confidence and support needed to implement the project. In Phase 1 of this assessment, which is the focus of this report, the intent is to explore the potential to foster the well-being of the community and, for this reason, the subset of factors and considerations related to the community are addressed at this time. Regional considerations are noted where early insight is available, however more detailed work would be conducted in Phase 2 should the community be selected to proceed to this phase of work and agree to do so.

A number of factors were identified as minimum criteria to consider in the site selection process in assessing the potential to foster well-being²:

- Potential social, economic and cultural effects during the implementation phase of the project;
- Potential for enhancement of the community's and the region's long-term sustainability through implementation of the project;
- Potential to avoid ecologically sensitive areas and locally significant features;
- Potential for physical and social infrastructure to adapt to changes resulting from the project; and
- Potential to avoid or minimize effects of the transportation of used nuclear fuel from existing storage facilities to the repository site.

In order to ensure that a broad, inclusive and holistic approach is being taken to assessment in these areas, a 'community well-being' framework was identified to help understand and assess the potential effects of the APM Project. This includes exploring the project, understanding how the community may be affected were the project to be implemented in the area, and identifying opportunities to leverage the project to achieve other objectives the community considers important. The framework is also used to explore the relative 'fit' of the APM Project for the community and the potential to create the foundation of confidence and support required for the implementation of the project.

¹ DPRA Canada. October 2013. *Community Profile, Hornepayne – Draft*.

² NWMO. 2010. *Moving Forward Together: Process for Selecting a Site for Canada's Deep Geological Repository for Used Nuclear Fuel*.

The framework is designed to encourage exploration of the project through five different ‘lenses’:

- **People or Human Assets** – How might the implementation of the project affect people?
- **Economics or Economic Assets** – How might the implementation of the project affect economic activity and financial health of the area?
- **Built Environment or Physical Assets** – How might the implementation of the project affect infrastructure and the physical structures which the community has established?
- **Society and Culture or Social Assets** – How might the implementation of the project affect the sense of belonging within the community, and among residents, and the services and network of activities created to serve the needs of community members?
- **Natural Environment or Natural Assets** – How might the implementation of the project affect the natural environment and the community’s relationship with it?

This report begins with an overview of the basic assumptions about the Project and potential effects used for the preliminary assessment. The community’s priorities/key issues, aspirations, capabilities and capacities are described. Next, the report explores the implications of the implementation of the APM Project on the well-being of the community in terms of the five ‘lenses’ or asset categories. The preliminary findings are also considered in terms of the ‘criteria to assess factors beyond safety’ identified by NWMO prior to the initiation of the siting process. A summary of relationship building and engagement activities, and the issues and questions raised to date, is provided. The report concludes by addressing key questions framed by NWMO at the outset of the site selection process.

Ultimately, the potential effect of the project on the well-being of a community needs to be identified and assessed by the community itself. This includes identifying the broad range of factors that need to be considered, the approach to measuring potential effect on well-being and judgements about the magnitude of this effect. It is also recognized that more detailed studies and further investigations of community specific risks and uncertainties will be required if the community continues in the siting process.

This report reflects the insight from desktop research and professional judgement, as well as reports shared by the community, insight provided by Community Liaison Committee members through their regular meetings over the course of more than a year, and individual discussions with community leaders and residents and others in the surrounding area. In preparing this report, we have been welcomed into the community and community members have graciously shared their time. We are extremely grateful for their time and participation.

2.0 THE APM PROJECT

This section provides a brief description of assumptions about the APM project and its potential employment benefits for the community of Schreiber and surrounding communities.

The APM project is currently still in early stages of design and for this reason there remains flexibility in the nature and scope of its implementation. This provides an opportunity for the project to be structured and operated in a manner that suits the conditions and aspirations of the community and surrounding area. However, it is important at this early stage of the preliminary assessment to understand the potential implications of the project on the community and its surroundings. This requires some basic assumptions about the project and initial effects. The starting assumptions for this preliminary assessment include the following:

1. The on-site labour workforce required by the APM Project (see Table 1) is in the range of 400 – 1,200 jobs and further jobs (indirect and induced) and community wealth creation will result from project spending for goods and services and employee income spending.³ The following table summarizes the estimated number of direct, on-site jobs throughout the life of the APM Project, which spans over 150 years.

Table 1: Estimate of On-Site Labour Workforce Required by APM Project

APM Phase	Number of Years (approx.)	Direct Jobs per Year (approx.)	Primary Skills Required
Construction	10	400-1,200	Mining, engineering, geoscience, safety assessment, manufacturing, construction, trades, project management, social science, engagement, communication, transportation
Operation	30 or more	700-800	Mining, engineering, geoscience, safety assessment, manufacturing, trades support, project management, social science, engagement, transportation
Extended Monitoring	50 or more	100-150	Geoscience, safety assessment, mining
Decommissioning and Closure	30	200-300	Mining, construction trades, geoscience, safety assessment, regulatory affairs
Long term monitoring	100 or more	25-50	Environmental and health and safety monitoring

Source: NWMO. 2012. *Description of Canada's Repository for Used Nuclear Fuel and Centre of Expertise*.

2. Realization of employment benefits within a community will depend on a variety of factors such as:
 - A. Preference for local hiring and sourcing from local businesses,
 - B. Training of local residents for positions in the project or in supporting services, and
 - C. Planning to prepare for and leverage future opportunities.

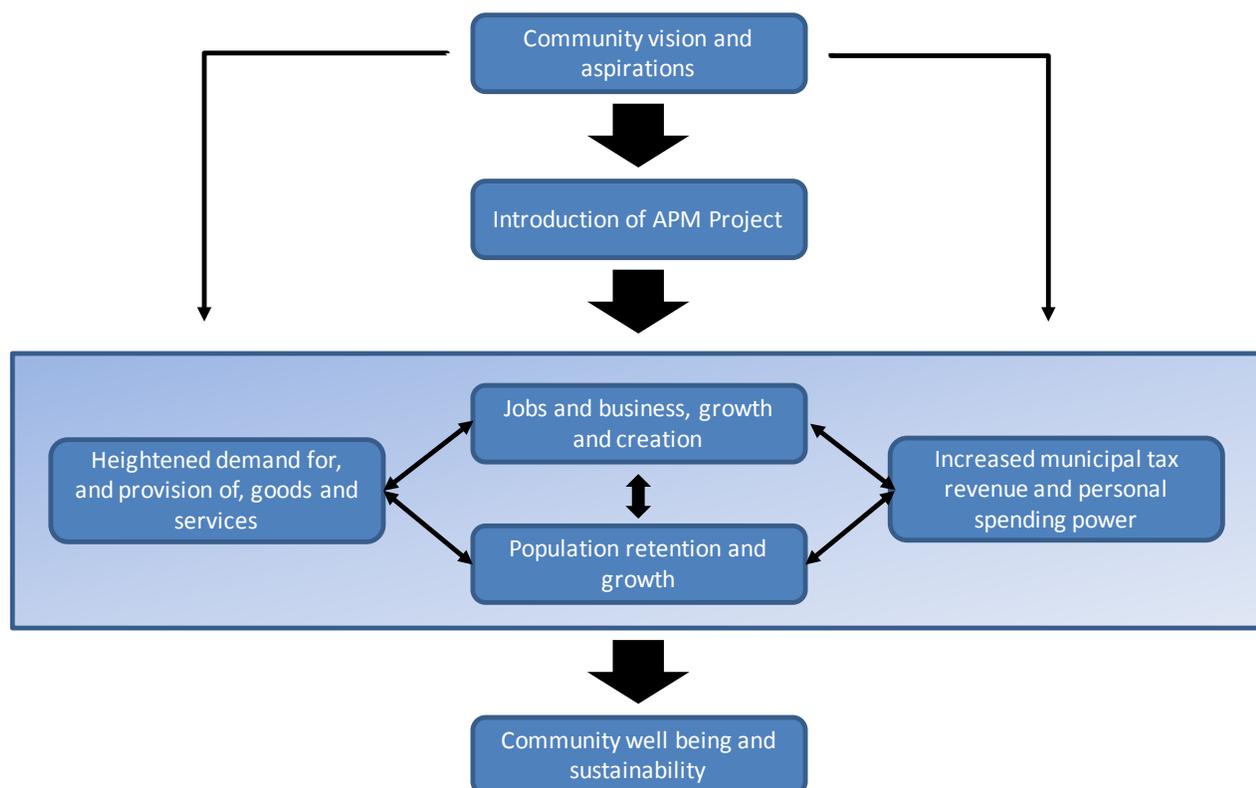
³ NWMO. 2012. *Description of Canada's Repository for Used Nuclear Fuel and Centre of Expertise*. Available online at <http://www.nwmo.ca/brochures>.

This project will be implemented through a long-term partnership involving the community, neighbouring communities and Aboriginal peoples in the area and the N WMO. Only through engagement, dialogue and collaboration will the N WMO ensure that needs are addressed at each stage of the process, and determine the specifics of how a partnership arrangement would work. For illustration purposes only, employment opportunities could be in the order of hundreds of new jobs (direct, indirect and induced) within the local area⁴. However, it will be up to the community to determine the nature and scope of how it wishes to grow in discussions with the N WMO.

3. The N WMO is committed to working with communities and the surrounding area to optimize the benefits associated with the project in a manner that will directly and positively contribute to the overall well-being of not only the host community, but also other communities within the surrounding area, and as much as possible, drive future growth, capabilities and expertise that will sustain the community over a long period of time.

The following figure provides a graphical representation of the direct and indirect effects that may result from the siting of the APM Project. Figure 2 illustrates how the project could be the impetus for growth in population, business activity and municipal finances.

Figure 2: Potential Direct and Indirect Effects of Siting of the APM Project in Schreiber



⁴ AECOM. 2010. *A Preliminary Assessment of Illustrative Generic Community Economic Benefits from Hosting the APM Project*. Available online at: http://www.nwmo.ca/uploads_managed/MediaFiles/1497_nwmosr-2010-09_preliminary_ass.pdf

3.0 VALUES AND ASPIRATIONS OF SCHREIBER

The Township of Schreiber is a resilient community, having faced significant social, cultural, and economic change due to the various “boom and bust” cycles associated with the community’s transportation and natural resource-based economy⁵. Perhaps the greatest recent change in the community occurred when the Terrace Bay Pulp Mill (owned by Kimberly Clark) closed in 2006. The Terrace Bay Pulp Mill has since been sold to the Aditya Birla Group, a corporation based in India. The Mill is being converted to dissolve and convert wood pulp into rayon fibre bringing much needed business activity and employment to the area. The Mill is currently in full production and approximately 300 people went back to work in October 2012.

The Township of Schreiber Official Plan, approved in August 2012, outlines the Township’s vision, mission statement, and strategic focus. Schreiber’s vision, mission, and four strategic focus areas are reproduced here:

Vision:

Our vision is growth for our community. To do this, we will pro-actively:

- *Promote and enhance the unique Schreiber experience;*
- *Pursue new opportunities;*
- *Establish strategic alliances; and,*
- *Position Schreiber to act on opportunities in keeping with our quality lifestyle.⁶*

Mission Statement:

To respond to community needs and provide services with pride and respect in a friendly manner, to the best of our abilities.⁷

Strategic Focus Areas:

- 1) *Relationship Building*
- 2) *Community Enhancement*
- 3) *Environmental Development*
- 4) *Economic Development⁸*

⁵ DPRA Canada. October 2013. *Community Profile, Hornepayne – Draft*.

⁶ Hynde Paul Planners. 2012. *Township of Schreiber Official Plan Update*. Website: <http://www.schreiber.ca/uploads/documents/LIVE/Township%20of%20Schreiber%20Redlined%20Draft%20Official%20Plan%20March%202012.pdf>; (Approved August 2012.)

⁷ Hynde Paul Planners. 2012. *Township of Schreiber Official Plan Update*. Website: <http://www.schreiber.ca/uploads/documents/LIVE/Township%20of%20Schreiber%20Redlined%20Draft%20Official%20Plan%20March%202012.pdf>; (Approved August 2012.)

⁸ Hynde Paul Planners. 2012. *Township of Schreiber Official Plan Update*. Website: <http://www.schreiber.ca/uploads/documents/LIVE/Township%20of%20Schreiber%20Redlined%20Draft%20Official%20Plan%20March%202012.pdf>; (Approved August 2012.)

The Schreiber Community/Economic Development Strategic Plan highlights three pillars that have been designed to provide direction and actions aimed at building on Schreiber’s economic and community strengths and opportunities. The three pillars are: Take Action Now, Creating a Schreiber Experience, and Entrepreneurship and Small Business. Each pillar is associated with a strategy created to help achieve and foster opportunities in Schreiber (Table 2).

Table 2: Pillars of Schreiber’s Community/Economic Development Strategic Plan

PILLAR	STRATEGY
Take Action Now	<i>To identify and implement priority community actions – do not let this Strategy sit on a shelf but instead begin and continue to implement until the strategy actions are completed.</i>
Creating a Schreiber Experience	<i>Develop various community focal points to create the buzz and excitement needed to retain and attract residents, businesses and tourists into the community. Make Schreiber the place where people want to go to live, work, visit, and play.</i>
Entrepreneurship and Small Business	<i>Nurture a supportive and successful business environment in Schreiber in order to both retain current businesses and attract new enterprises.</i>

Source: McSweeney & Associates. 2011a. *Township of Schreiber Community/Economic Development Strategic Plan.*

Website: <http://www.schreiber.ca/uploads/documents/LIVE/Schreiber%20Strategy%20-%20final%20v.2.pdf>; (Approved August 2012.)

Opportunities to enhance Schreiber’s community well-being include transforming the TransCanada Highway corridor in and out of town, and to revitalize/rejuvenate the downtown/Main Street area. Physical improvements to the TransCanada Highway corridor and Main Street area could mean that Schreiber will attract more visitors, increase economic diversity, make the community more sustainable physically (i.e., walkable) and economically. In addition, other opportunities to enhance Schreiber’s community well-being are to support existing businesses, and attract new businesses.

Schreiber has sufficient infrastructure and services available to it to support a larger community (i.e., growth). Growth could in turn help make the services and infrastructure more viable, affordable, and sustainable. Growth could attract new business and services adding to quality of life and addressing some of the challenges Schreiber residents have identified.

Schreiber can capitalize on opportunities for economic diversity associated with activities, such as Aditya Birla Group and resource exploration, by identifying specific properties for potential development and advancing land use and development approvals.

4.0 SUMMARY OF COMMUNITY ASSETS – KEY ISSUES, ASPIRATIONS, CAPABILITIES AND CAPACITIES

As described in the Community Profile⁹, Schreiber has several priorities, aspirations, capabilities and capacities that are most vital to the well-being of the community. These are organized to describe the characteristics of the community through five different perspectives or ‘lenses’:

- **Human:** Skills, knowledge and essential services supporting the well-being of the community;
- **Economic:** Monetary or financial resources supporting the well-being of the community;
- **Infrastructure:** Basic physical infrastructure supporting the well-being of the community;
- **Social:** Social and community activities in which people participate and the services and programs they draw upon to support well-being; and,
- **Natural environment:** Nature and the natural environment important to well-being.

The characteristics of the community are referred to as “assets” throughout the report. This is intended to highlight their importance and pave the way for a broad and holistic discussion of how the community may be affected by the APM Project, or other large projects which the community may consider.

Table 3 summarizes the priorities and key issues as understood through desktop research, review of documentation, and discussions with community leaders and residents. Table 4 sets out the aspirations of the community that are articulated in Schreiber’s Community and Economic Development Strategic Plan, Official Plan, and in discussions with community leaders and representatives. Table 5 describes some of Schreiber’s capabilities to overcome key issues, address main priorities and achieve aspirations as understood through discussions with the community.

The findings in these tables provide the foundation for the preliminary assessment of community well-being and the potential implications of the APM Project.

⁹ DPRA Canada. October 2013. *Community Profile, Schreiber – Draft*.

Table 3: Summary of Priorities and Key Issues

Asset Category	Overall Priorities and Key Issues
Human	Schreiber is a community strongly tied to its resource and transportation-based economy. As a result, the economic downturn, as well as the downsizing and closure of major employers (e.g., Terrace Bay Pulp Mill [re-opened in Oct 2012]) in recent years have resulted in a decline in employment opportunities. However, the continued presence of the Canadian Pacific Railway (CPR) has enabled a degree of stability despite economic decline and business closures in Schreiber.
Economic	Attracting and employing skilled workers is increasingly challenging for Schreiber as it competes with employers and industrial sectors outside of the region. There are a limited number of youth returning to Schreiber and entering the work-force within the community. In 2001, Schreiber residents had a total employment rate of 61.0% and in 2006, the total employment rate decreased to 45.6%. This increased to 67.3% in 2011. Recent provincial and national economic circumstances have led to a decline in the tourism market. Reduced municipal funding has been an issue in part resulting from a lack of non-residential tax base and tax arrears on some properties.
Infrastructure	The following priorities and key issues have been identified in Schreiber’s Official Plan strategic focus areas: relationship building, community enhancement, environmental development, economic development; and, some limited improved physical infrastructure in Schreiber is needed (e.g., housing and roads).
Social	Overall, Schreiber contains good community and recreation-based facilities. The decreasing population over the past decade, as well as a lack of funding for programs continues to put stress on program delivery. Even with the economic challenges, many programs and activities are maintained.
Natural Environment	The provincial parks, reserves, and other natural areas near Schreiber are a source of pride for residents. The tourism market has seen a change in that fewer young adults and families and traditional hunting/fishing groups venture to these natural areas. There are also fewer visitors from the United States due to decline in the US economy in recent years.

Table 4: Summary of Community Aspirations

Asset Category	Overall Community Aspirations
Human	<p>Schreiber’s Community/Economic Development Strategic Plan identifies a number of priorities for the community now and into the future, including community and economic stability. The Township’s Official Plan outlines four strategic focus areas: relationship building, community enhancement, environmental development, and economic development. Despite decline and recent hardships resulting from the Terrace Bay Pulp Mill closure, residents maintain a strong sense of resiliency and pride in their community and heritage. As of October 2012, the Terrace Bay Pulp Mill reopened and approximately 300 people went back to work.</p>
Economic	<p>The Community/Economic Development Strategic Plan outlines a community vision, goals, and objectives for economic development in Schreiber as an ongoing priority for Schreiber residents is stable employment opportunities. The Township’s Official Plan also outlines a vision and mission statement:</p> <p>Vision Statement <i>Our vision is growth for our community. To do this, we will pro-actively: promote and enhance the unique Schreiber experience; pursue new opportunities; establish strategic alliances; and, position Schreiber to act on opportunities in keeping with our quality lifestyle.</i>¹⁰</p> <p>Mission Statement <i>To respond to community needs and provide services with pride and respect in a friendly manner, to the best of our abilities.</i>¹¹</p>
Infrastructure	<p>Schreiber’s location is ideally situated along the TransCanada Highway on the north shore of Lake Superior, only a 2-hour drive from Thunder Bay. This provides Schreiber with opportunities to enhance its sense of place for community members. The community hopes to focus on transforming the TransCanada Highway corridor to Schreiber in an effort to highlight downtown and the local beach, rejuvenate downtown, increase advertising and promotion of Schreiber’s natural features, and create greater and stronger connections with other local communities.¹²</p>

¹⁰ Hynde Paul Planners. 2012. *Township of Schreiber Official Plan*. Website: <http://www.schreiber.ca/uploads/documents/LIVE/Township%20of%20Schreiber%20Redlined%20Draft%20Official%20Plan%20March%202012.pdf>; (Approved August 2012.)

¹¹ Ibid.

¹² McSweeney & Associates. 2011. *Market Study for the Township of Schreiber*. Website: <http://www.schreiber.ca/uploads/documents/LIVE/Schreiber%20Market%20Study.pdf>

Asset Category	Overall Community Aspirations
Social	The Schreiber Public Library, a staple in the community, has set forth three strategic priorities and objectives to help fulfill the needs of the community: improve library space and facility, continue to develop and pursue outreach activities through active partnerships for programming and services, and continue to evolve technological programs and services offered by the library. Schreiber residents will want to continue and expand on their sense of community pride, friendly manner and active participation in community activities.
Natural Environment	Natural land and wildlife are highly valued by community residents. There is a need to balance economic activities with recreational and tourism based activities in natural areas.

Table 5: Summary of Community Capabilities

Asset Category	Community Capabilities and Capacities
Human	In 2006, 80.9% of the labour force was employed and in 2011, the percentage of those employed in the labour force increased to 92.4%. Between 1996 and 2006, an increasing number of community residents obtained a high school certificate and between 1996 and 2011, a number of residents whose highest level of education was a university/college education significantly increased from 19.1% in 1996 to 35.2%.
Economic	The Schreiber Economic Development Committee interacts with other associations and interest groups, and identifies, discusses, and explores any options and/or ideas that pertain to economic opportunities for the community. ¹³
Infrastructure	Schreiber has sufficient water and sewage treatment plants capacity to support growth in the community. The community also has excellent transportation access to the TransCanada Highway and the CPR.
Social	Schreiber residents maintain a strong volunteer base and presence in the community and continue to host annual town events and programs that support local needs and nurture community pride. Schreiber’s social ties also extend to Terrace Bay and Rosspoint, where residents maintain positive working and social relationships.
Natural Environment	There are vast natural areas in and near Schreiber that are significant assets for the community in terms of tourism and recreational activities. The community is committed to protecting the natural environment.

¹³ Economic Development Committee. (n.d.). *Terms of Reference – The Township of Schreiber Economic Development Committee*. Website: <http://www.schreiber.ca/uploads/documents/WORK/Schreiber%20EDC%20Terms%20of%20Reference.pdf>

5.0 COMMUNITY WELL-BEING ASSESSMENT

In this section, implications of the implementation of the APM Project on the well-being of the community are examined through each of five different perspectives or “lenses”. These are referred to as “assets”. Additional detail on these is provided in the Schreiber Community Profile.¹⁴

5.1 IMPLICATIONS FOR HUMAN ASSETS

For the purpose of this analysis, the Human Assets within a community are understood to include the skills and knowledge inherent in it and the ability of a community to provide its residents with access to other skills, knowledge and essential services that are fundamental to maintaining community well-being, quality of life or a desired standard of living. In this analysis, the specific indicators examined included:

- Population Size and Demographics;
- Skills and Labour Supply;
- Education; and,
- Health, Safety Facilities and Social Services.

Table 6 summarizes the observations for the APM Project for the human assets of Schreiber.

Schreiber has an aging population and is currently in a period of population decline. In 2011, the community’s population was 1,126. Schreiber has experienced significant population loss in the past two decades with the resulting effects on loss of retail and other services. Schreiber has historically been dependent on the railway industry and on natural resource-based industries and has been susceptible to many “boom and bust” cycles. As a result, the community has been experiencing out-migration as youth and predominantly young families seek other employment opportunities elsewhere. This is the result of a mine closure and the Terrace Bay Pulp Mill closure; however, the Mill was recently sold and is once again in full production. The re-opening of the Terrace Bay Pulp Mill has brought a measure of relief and stability to the town, but will not re-invigorate and grow the town to the level that the residents desire.

The community has expressed a strong desire to grow – more than double its current population. The APM Project has the potential to help the community to grow, which would rejuvenate the schools, supply retail opportunities and provide community facilities and services. The APM Project would likely utilize any available existing skilled labour force and attract a new skilled and diverse workforce as well as attracting new families. The project offers the opportunity for local residents to obtain opportunities in direct, indirect and induced jobs. The hundreds of employees who move to the town with their families would provide Schreiber with a

¹⁴ DPRA Canada. October 2013. *Community Profile, Schreiber Ontario –Draft.*

much higher level of community well-being for decades. Schreiber would require assistance to plan for and manage growth, as well as train and engage any available local workforce.

With respect to education, Schreiber and Terrace Bay have experienced a decline in enrolment and staff at educational facilities as well as a reduction in programming in recent years. The recent opening of the Terrace Bay Mill will counter these trends to some extent. Community education facilities are underutilised given current population levels. It is hoped that the APM Project would stimulate career aspirations and interest in education and training. As such, Schreiber would require planning and support to educate and train workforce and future generations. Investment may be required for new training facilities in the community or surrounding area. The APM Project has the potential to further reverse the decline and stimulate growth in Schreiber and other nearby communities.

Basic healthcare is available in the community; however, specialty healthcare services require travel outside of the community. Emergency services are also adequate for the community at this time. With growth, demand for health and safety services will increase, as well as social risks associated with population growth and project activity. Growth may also stimulate planning and expansion of health and safety facilities and services in the community.

The APM Project has the potential to bring positive net benefits to the Human Assets of Schreiber were the project to be implemented in the area. It would help the town realize its aspiration and goals, and it would drive development and expansion in other aspects of its community well-being.

Table 6: Implications for Human Assets

Criteria / Measures	Ideal CWB Condition	Current Schreiber Profile	Possible Schreiber Profile with APM Project	Observations	
HUMAN ASSETS:					
Population Size and Demographics	Increase population to 1,500 – 3,000 Retention of youth and young families	Declining Population between 1996 and 2006 More recent growth in population since 2011	←	Growth in population and diversity →	<ul style="list-style-type: none"> Schreiber has experienced out-migration with fluctuations of employment opportunities. Aging population with limited opportunity to attract working population. Community has expressed a strong desire to grow –more than double its current population. APM Project offers potential to create jobs and attract and retain population. Schreiber would require assistance to plan for and manage growth.
Skills and Labour Supply	Presence of a diverse, skilled workforce	Constrained opportunities for employment	←	Job creation and growth of a diverse, skilled workforce →	<ul style="list-style-type: none"> Majority of past out-migration has been workforce seeking employment elsewhere. Limited local employment opportunities to attract a diverse and growing workforce. APM Project would likely attract new skilled and diverse workforce and bring in new families. The APM Project offers diverse career opportunities for local residents in direct and indirect jobs. Schreiber would require assistance to train and engage any available local workforce.
Education	Access to education and training Increased enrolment and programming	Declining enrolment Constrained programming	←	Increased enrolment and opportunities for education and training Broader range of programming →	<ul style="list-style-type: none"> Schreiber has experienced declining enrolment and declining staff and a contraction in programming over recent years. Wide range of new local employment/career opportunities with the APM Project will attract young families to the area, increasing enrolment. The APM Project will stimulate career aspirations and interest in training and education. Schreiber would require planning and support to educate and train current workforce and future generations to take advantage of career opportunities. Schreiber may require investment for new training facilities in the local region or the community.
Health & Safety Facilities and Services	Access to full range of health services 24/7 Fully serviced by emergency responders	Local hospital is able to meet many local needs Specialty care not available within the community Emergency response needs adequately met	→	Increased demand on services and facilities Catalyst to broaden supply of services and facilities, particularly healthcare →	<ul style="list-style-type: none"> Basic healthcare is available; specialty healthcare requires travel outside the community. Emergency services are adequate for the community at this time. With growth, demand for health and safety services will increase. Potential for increased social risks associated with population growth and project activity. Conversely, growth may also stimulate planning and expansion of health and safety facilities and services.
Declining-Negative	←				
Neutral-Neutral	→				
Increasing-Enhanced-Positive	→				
Uncertain	△				

5.2 IMPLICATIONS FOR ECONOMIC ASSETS

The Economic Assets within a community are understood to include monetary or financial related resources that people use to achieve their well-being objectives. It includes cash or equivalents to individuals and/or their community, and availability of financial and economic resources that allow the community and residents to manage their finances and wealth. In this analysis, the specific indicators examined include:

- Employment;
- Business Activity;
- Income;
- Tourism;
- Economic Development Services; and,
- Governance and Municipal Finance.

Table 7 summarizes the observations of the APM Project for the economic assets of Schreiber.

In recent years, Schreiber has experienced a number of local business closures, which has resulted in some declining employment and local shopping opportunities for residents.

Until recently, employment in the resource sectors has been declining. Many residents left the community to find work elsewhere, in Northern Ontario and beyond. This was particularly prevalent amongst the younger generation. Recently, however, the reopening of the Terrace Bay Pulp Mill is helping to create local employment opportunities. Mining exploration is also underway in the area. It is hoped that current activities and the APM Project will provide desired stable employment and career opportunities for community residents. Schreiber may require assistance to ensure residents are able to realize project direct and indirect employment opportunities.

The APM project will create new employment opportunities and stimulate business activity for residents as well as attract new employees and their families to the community. This growth, coupled with the potential of increased mining activity in the area, will stabilize and increase the retail and service sectors. Schreiber may require planning assistance to implement and manage economic development.

At present, employment incomes and household incomes in Schreiber appear to be increasing relative to past levels. The APM Project, through local job creation will further stimulate growth in household income and wealth creation. Some residents may benefit from assistance and counselling regarding wealth and debt management.

Natural areas in and surrounding Schreiber, particularly along the waterfront, are very important to the community for conservation, residents' use and for tourism. Schreiber is located within the Lake Superior National Marine Conservation Area. The tourism industry in Schreiber is largely dependent on the American market, which is in decline. Tourism has long been an important economic activity for the community of Schreiber. Going forward, the community has expressed a strong desire to pursue new tourism opportunities and grow the industry. The NWMO repository has the potential to create a negative image in the public's

perceptions with respect to the natural environment. There is concern that the APM Project may adversely affect tourism, as some people may be less likely to visit the area. Conversely, there is also potential for new tourist visitors to come to the area to learn more about the project. Schreiber and tourism organizations may require assistance to manage the presence of APM Project constraints and opportunities.

Schreiber's Economic Development Committee developed a Community and Economic Development Strategic Plan. Economic development has been difficult; however, there are opportunities for future economic development with neighbouring communities including Aboriginal communities. There is also the potential for the APM Project to improve business development opportunities through its own presence and the creation of associated business opportunities. Assistance to plan and implement a strategy that will realize economic development opportunities may be needed.

In 2012, there was a public tax sale of approximately 40 properties, some of which have sold. The community currently has a fiscal imbalance so the APM Project will contribute to a more balanced municipal tax structure. Tax revenues are increasing with increased employment in the area. The APM Project will increase municipal revenues to accommodate project related demands for services and infrastructure. Optimizing benefits may require assistance from the NWMO in terms of planning. Going forward, the NWMO will need to assist the community with a range of planning and implementation initiatives by working with municipal government departments to understand the fiscal implications of the APM Project and how best to manage its finances.

Should the APM Project locate in Schreiber, the net economic effects are expected to be positive although there is some concern that negative perceptions associated with the APM Project may impact the tourist industry. There is also the potential for niche markets associated with APM to increase tourism. For the most part, however, jobs and business opportunities will be created and incomes will grow. The presence of long term and stable job opportunities will change the economic complexion of the community. Out-migration of youth will slow and in-migration will occur as Schreiber becomes an employment centre. More households and greater expenditures open up market opportunities for local businesses to service the expanding needs of a growing and more affluent population. These conditions align with the community's aspirations for economic growth.

Table 7: Implications for Economic Assets

Criteria / Measures	Ideal CWB Condition	Current Schreiber Profile	Possible Schreiber Profile with APM Project	Observations
ECONOMIC ASSETS:				
Employment	Increasing employment opportunities for residents	Improving employment opportunities through reopening of major employer	 Growth in the number of and diversity of employment opportunities in the community 	<ul style="list-style-type: none"> Business closures have resulted in a decline in local job opportunities for residents in recent years. Many residents left the community to seek employment elsewhere; some residents seek to remain in the community but work in other locations across northern Ontario and further afield. Out-migration of youth in search of job and career opportunities is prevalent. Attracting skilled workers is a challenge given competition with employers outside the area. With the reopening of the Terrace Bay Pulp Mill by Aditya Birla Group, employment opportunities have been created for locals. APM Project would offer a diverse range of employment opportunities and careers for both community and regional residents. Schreiber may require assistance to ensure local residents are able to realize project direct and indirect employment opportunities.
Income	Household income growth and diminished need for social assistance	Median labour income is increasing	 Growth in employment and as a result growth in household incomes and wealth creation 	<ul style="list-style-type: none"> Recent trends indicate rising employment income. APM Project would create local jobs this will stimulate growth in household income and wealth creation. Some residents may benefit from assistance and counselling regarding wealth and debt management. Schreiber may require assistance to help residents realize employment opportunities and manage their finances.
Business Activity	Business growth and increasing business diversity	Many businesses in decline Downsizing and closures are have been commonplace	 Growth in business activity leading to growth in the number and diversity of businesses 	<ul style="list-style-type: none"> Decline in business activity has had a ripple affect across the community causing job loss and population decline. However, reopening of Terrace Bay Pulp Mill has created local employment opportunities. APM Project would create local direct and indirect jobs and stimulate business activity across the community. By reversing the population decline and raising incomes local market opportunities would present themselves and these in turn will stimulate business growth and diversity. Schreiber may require assistance to plan, implement and manage economic development.
Tourism	Stability or growth in area tourism	An industry facing change Demographic, social and economic circumstances have affected the market	 Potential deterioration in tourism, particularly in shoreline area, as a result of negative perceptions and project concerns Potential increase in tourism with niche market 	<ul style="list-style-type: none"> Area tourism is strongly linked to the Lake Superior shoreline. Economic circumstances, nationally and internationally, have affected the tourism market. APM Project may not be well-aligned with aspirations of the community regarding tourism. APM Project may result in some negative perceptions of the area, but may also provide new markets for local tourist industry through population in-migrating to realize employment opportunities and visitors coming to area to learn about and see the project. Schreiber and tourism organizations may require assistance to manage the presence of APM constraints and opportunities.
Economic Development Services	An active, economic development organization that has demonstrated success in attracting businesses to the community	The Town has an economic development committee but tangible success has been hard to come by	 Businesses will want to locate in the community to take advantage of the business opportunities directly and indirectly created by the APM Project 	<ul style="list-style-type: none"> Economic development has been difficult given the overall economy and the ongoing local attrition in businesses and jobs. Schreiber’s Economic Development Committee has developed a Community and Economic Development Strategic Plan. APM Project would provide a catalyst for economic development through its own presence and creation of associated business opportunities. Schreiber may need assistance to plan and implement a strategy that will fully realize the economic development opportunities presented by the APM Project.
Governance and Municipal Finances	Community is financially sustainable over short and long term	Able to cover annual operating costs Enhanced tax base with reopening of mill	 An enhanced tax base with solid contributions from industrial and commercial properties Sufficient revenues to cover operating and capital requirements 	<ul style="list-style-type: none"> A year previous, there was a public tax sale of approximately 40 properties, some of which have sold. The situation may continue to improve with the re-opening of the Terrace Bay Pulp Mill. APM Project by its presence would contribute to a more balanced municipal tax structure and elevate revenues available to the municipality to accommodate increased funding for services and infrastructure. Schreiber may need assistance to understand the fiscal implications of the APM Project and to how best to manage its finances to ensure upside potentials are fully realized and downside risks are minimized.

Declining-Negative	
Neutral-Neutral	
Increasing-Enhanced-Positive	
Uncertain	

5.3 IMPLICATIONS FOR INFRASTRUCTURE

The Infrastructure or Physical Assets within a community is understood to include the basic infrastructure needed to support well-being and the tools or equipment that people use to function more productively. Infrastructure is a public good and improved access to it increases community well-being and quality of life. In this analysis, the specific indicators examined included:

- Housing;
- Municipal Infrastructure and Services; and,
- Transportation Infrastructure.

It should be noted that while these indicators are a subset of those included in the Community Profile, these are the key indicators that are thought to be most important to Schreiber in terms of its physical well-being.

Table 8 summarizes the observations with respect to the APM Project for the physical assets of Schreiber.

Basic municipal infrastructure is in place in Schreiber. Following tax sales in 2012, the property market appears to have stabilized. There was a public tax sale of approximately 40 properties, some of which have sold. The APM Project would see the in-migration of individuals and families who will absorb the available housing stock; as a result, housing prices might increase. The APM Project would also create a demand for a mix of housing types in the community. A supply/demand balance of housing would need to be maintained and ensure there is a strong supply of affordable housing. Schreiber may need assistance to plan, develop, and maintain a sustainable housing portfolio.

The APM Project would generate municipal revenues directly and indirectly that can be applied to facility operation and maintenance, upgrading and replacement. Schreiber may need planning assistance.

Schreiber is situated along the TransCanada Highway and the Canadian Pacific commercial rail line. It has neither an airport nor port facility; the closest International Airport is located in Thunder Bay. The APM Project has the potential to increase the demand and use of transportation infrastructure and also facilitate improvements. As such, Schreiber and relevant authorities may require assistance to create a multimodal transportation plan.

The current permanent housing stock is sufficient for the residents, but the recent re-opening of the Terrace Bay Pulp Mill and the area mining activity is straining the current motel/hotel capacity. With the APM Project, the community will need to encourage development of new housing areas and new commercial opportunities.

The current physical infrastructure (i.e., water and sewage treatment) is sized to handle up to a population of 3,000 people so it can meet the requirements of the anticipated workforce. To the extent that the facility operations will make additional demands on municipal services and the transportation infrastructure, NWMO will need to support and work closely with the community to ensure all the necessary services and infrastructures are in place.

Overall, the changes in community well-being related to the infrastructure of Schreiber as a result of the APM project appear to be positive. The APM Project has the potential to create increased demand for housing and municipal services but also the means to pay for them. With respect to housing, there will be demand for a range of housing stock and there may be some project related price escalation which needs to be managed.

Table 8: Implications for Infrastructure

Criteria / Measures	Ideal CWB Condition	Current Schreiber Profile	Possible Schreiber Profile with APM Project	Observations
INFRASTRUCTURE OR PHYSICAL ASSETS:				
Housing	<p>Sufficient housing stock to meet all needs and incomes</p> <p>Average house values increase over time in line with household incomes</p>	<p>Adequate housing</p> <p>Meets needs of community residents</p>	<p>Growth in number and diversity of housing</p> <p>Potential shortage of supply if development does not keep pace with demand</p>	<ul style="list-style-type: none"> ▪ Prior to 2012, housing prices have been in decline. ▪ There was a public tax sale of approximately 40 properties some of which have sold. ▪ The situation may continue to improve with the re-opening of the Terrace Bay Mill. ▪ APM Project would see the in migration of individuals and families who will absorb the available housing stock. As vacancy rates fall and housing supply becomes constricted housing prices might increase. ▪ APM Project would create a demand for a mix of housing types and tenure arrangements. ▪ A supply/demand balance of housing would need to be maintained to prevent excessive price escalation and ensure there is a strong supply of affordable housing. ▪ APM Project would increase demand for accommodation and other commercial services thereby requiring additional commercial development to service the needs of new workers, new residents, tourists and general travelling public. ▪ Schreiber may need assistance to plan, develop and maintain a sustainable housing portfolio.
Municipal Infrastructure and Services	<p>Infrastructure assets are in good condition, well maintained and adequately sized to meet the short and long term needs of the community</p>	<p>Basic municipal services are present in the community</p>	<p>Increased demand for infrastructure and services</p> <p>Enhanced opportunities for new and renewed infrastructure</p>	<ul style="list-style-type: none"> ▪ Community has adequate municipal services to meet current needs. ▪ APM Project may place increased demands on existing infrastructure and may necessitate facility replacement or upgrading in some cases. ▪ APM Project would generate municipal revenues directly and indirectly that can be applied to facility operation and maintenance, upgrading and replacement. ▪ Schreiber may need assistance to plan, operate, maintain, and build new as required to meet service demands associated with the APM Project.
Transportation Infrastructure and Services	<p>A strong complement of transportation facilities and services to meet the needs of the residents and businesses within the community</p>	<p>Situated on the TransCanada Highway CPR main line</p>	<p>Increase in demand for new transportation infrastructure</p> <p>Upgrade of existing transportation routes</p> <p>Re-establishment of rail passenger service</p>	<ul style="list-style-type: none"> ▪ Schreiber is situated along the TransCanada Highway and Canadian Pacific commercial rail line. ▪ Closest domestic airport is in Marathon and International Airport in Thunder Bay. ▪ APM Project would increase road, rail and airport usage and this may necessitate upgrading and expansions. ▪ Schreiber and relevant authorities may require assistance to create a multimodal transportation plan to design, build, operate and manage transportation facilities and services needed by the APM Project.
Declining-Negative				
Neutral-Stable				
Increasing-Enhanced-Positive				
Uncertain				

5.4 IMPLICATIONS FOR SOCIAL ASSETS

For the purpose of this analysis, the Social Assets within a community are understood to include the social and community activities in which people participate and the resources that they draw upon in pursuit of their well-being. These activities and resources create networks within and between communities, enhance cohesion and generate trusting relationships and community pride. In this analysis, the specific indicators examined included:

- Community Recreational Facilities and Programs;
- Social Services and Organizations; and,
- Community Character.

It should be noted that while these indicators are a subset of those included in the Community Profile, these are the key indicators that are thought to be most important to Schreiber in terms of its social well-being.

Table 9 summarizes the observations of the APM Project for the social assets of Schreiber.

Recreational facilities and recreational and social programs are generally a major source of pride for many communities and serve as a social hub and focal point. They also provide opportunities to foster young talent in sports and recreation and have other benefits for the social, physical and emotional well-being of the population. The community contains good recreational-based infrastructure for the current population and has the capacity to serve a larger population. Schreiber is currently managing the range of social and community services and programs in the face of a declining and changing population. However the decline in population has led to program reductions in recent years. Fluctuating financial circumstances of the Municipality strain operating budgets and do not permit major capital investments in infrastructure, therefore new facilities cannot be constructed or existing facilities upgraded. The APM Project will bring an increased population to the community, thereby boosting participation and involvement. It will also enable new facility construction and upgrading. This transition may require planning assistance.

Schreiber is a safe and quiet community for families. The community has a strong sense of pride in its history, heritage and volunteer base. The community prides itself on being resilient with a close-knit community population where volunteerism is strong. The community has a strong sense of pride in its history and character and close ties to the natural environment with a particular emphasis on the Lake Superior National Marine Conservation Area. Any perceived threats to these relationships are a source of strong community concern and therefore there is some uncertainty as to the potential effect of the APM Project on community character and cohesion.

The APM Project will increase population and employment which, in turn, will reinforce and enhance the recreation and social programs. The facility will also reinforce community pride as the community reverses its decline and begins to grow again.

It will be important to assist in the “phasing in” of employees and their families so that the strong sense of community is enhanced.

The APM Project would have a net positive benefit on the Social Assets of the community were it to be implemented in the area. The increased population associated with the APM Project would be expected to increase demand on recreational programs and social organizations. However, this increased population would also heighten participation rates, and create a larger base of human resources for volunteers. Increased funding and participation would allow Schreiber to upgrade and expand its recreational and social programs. Based on discussions with the community, the project could have a positive influence on the dynamics of the community by providing a more stable population base through the retention of younger families and youth and by providing the ability to support its middle aged and senior populations. However, there is some uncertainty regarding the compatibility of the APM Project and the community's values and vision for its surrounding natural environment.

Table 9: Implications for Social Assets

Criteria / Measures	Ideal CWB Condition	Current Schreiber Profile	Possible Schreiber Profile with APM Project	Observations
SOCIAL ASSETS:				
Community Recreational Facilities and Programs	A strong complement of recreational facilities and programs to meet the needs of the residents	Has a good complement of facilities but with population decline it is becoming less viable to operate some facilities and programs	<p>Increased demand for and patronage of recreation programs</p> <p>Enhanced opportunities for new and renewed facilities</p>	<ul style="list-style-type: none"> A variety of social and recreational clubs exist within the community. The decline in population has caused some attrition in recreational programming. For the most part, the community contains good recreational-based infrastructure for the current population and has capacity to serve a larger population. APM Project would bring population into the community and this population may place demands on existing facilities and services and may create need for new facilities and services as well. Schreiber may need assistance to plan, develop and operate the recreational facilities and services needed in light of the APM Project.
Social Services and Organizations	A wide range of services, organizations and media outlets present to support the social fabric and needs of the community	Has some organizations and services present	<p>Increased demand for and use of social services and organizations</p> <p>Enhanced opportunities for new services and organizations</p>	<ul style="list-style-type: none"> Schreiber has a variety of social service programs available to its residents. Volunteers are active in service delivery. APM Project would bring population in to the community and this population may place demands on existing services and organizations and may create a need for new services and organizations as well. Schreiber would need assistance to plan, develop and resource the services and organizations needed in light of the APM Project.
Community Character	<p>Strong sense of community identity</p> <p>Cohesive community</p> <p>Stability of population</p>	<p>Strong sense of pride in history, community and natural environment</p> <p>Strong volunteer base in community</p>	<p>Increased youth retention and resources will strengthen pride in community</p> <p>Potential APM Project may diminish community pride for some residents</p>	<ul style="list-style-type: none"> Schreiber has a strong sense of pride associated with community's history, heritage and volunteer base. Schreiber is felt to be a safe, quiet and friendly community for new and existing families. Residents in the community strongly value its natural environment and features. The community is cohesive; however, there is some uncertainty as to the potential effect of the APM Project on community character and cohesion resulting from any perceived threats to the community character elements and sense of pride tied to the natural environment, with a particular emphasis on the Lake Superior National Marine Conservation Area. Economic circumstances have challenged the community and there is a need to re-ignite entrepreneurial spirit. The APM Project could bring growth and stability if carefully managed to ensure community pride is maintained. Schreiber would need assistance to plan for and accommodate population associated with the APM Project
Declining-Negative				
Neutral-Stable				
Increasing-Enhanced-Positive				
Uncertain				

5.5 IMPLICATIONS FOR NATURAL ENVIRONMENT

For the purpose of this analysis, the Natural Environment within a community is understood to include a wide range of natural assets from intangible public goods (e.g. air quality and biodiversity) to resources that are “used” by people (e.g. water, trees, land and wildlife). In this analysis, the specific indicators examined included:

- Parks and Protected Areas; and,
- Natural Areas/Features of Significance.

Table 10 summarizes the observations of the APM Project for the natural assets of Schreiber.

In describing their natural surroundings, Schreiber residents include three Provincial Parks, a National Marine Conservation Area, and a nature preserve near Schreiber. Increased population will result in increased visitor numbers and also heightened pressure on natural areas.

The natural environment of the area, especially the shoreline, and its features are highly valued by the residents, and contribute to the tourism in the area. Schreiber and area residents regularly use the surrounding area for recreational activities. Fishing, hunting and other shoreline activities are important to the community as are the snowmobile and ATV trails. The APM Project would bring in employees and their families that will create additional demands on the natural environment. Further environmental studies would be needed to understand any environmental effects. With proper planning and dialogue, resources would remain protected and increased demand managed.

The potential increase in population should not have any significant negative affect any of the valued natural features, but the NWMO will need to work with the appropriate agencies (i.e., Ministry of Natural Resources, Parks Canada, Ontario Parks, and the Township) to ensure sensitive areas are protected and use is directed to areas where environmental effects will be minimal.

Initial studies on the potential environmental effects associated with the project suggest that the APM Project is unlikely to have any significant negative effect on the natural environment which makes up the parks and protected areas near the community. In theory, there is the potential that visitation at the Provincial Parks may experience some decline with the presence of the facility and any associated negative perceptions due to the project. However, there are many examples of Provincial Parks that are situated close to or nearby to nuclear facilities (i.e., Darlington, MacGregor Point and Inverhuron Provincial Park) where visitation has not been affected. It is expected that through working with park managers and clearly communicating with the public, any effects due to negative perceptions can be mitigated, and project activity may even be leveraged to take advantage of increased population growth and visitation associated with the project. Further study is required to better understand and predict the potential effects of the project on visitor perception and use of the area.

As would be the case with any large project, natural areas may be negatively influenced during the various phases of the project. Effective mitigation and environmental protection measures will ensure that the overall environmental integrity of the area is maintained. It is understood at this point in time that no significant negative environmental effects are likely during the construction, operation and decommissioning phases of the used fuel repository taking into account mitigation that will be applied.

The Project contains some flexibility with respect to on-site building designs and energy use to be consistent with broad environmental and social values. For example, the ability to use renewable sources of electric power, where feasible, coupled with energy-efficient building designs might limit the overall carbon footprint of the project.

Table 10: Implications for Natural Environment

Criteria / Measures	Ideal CWB Condition	Current Schreiber Profile	Possible Schreiber Profile with APM Project	Observations and Implications
NATURAL ENVIRONMENT:				
Parks and Protected Areas	Conservation reserves and parks are supported and maintained and also remain available for use	Protected areas and parks are available for passive and active recreational use Park use has been increasing over time	Potential for increased demand	<ul style="list-style-type: none"> Provincial parks, a national marine conservation area and nature preserve attract many visitors and are a sense of pride for the community. There is potential for increased demand on conservation reserves and provincial parks. With proper planning and dialogue, resources would remain protected and increased demand managed.
Natural Areas / Features of Significance	Areas and features are protected and contribute to pride of place	Residents are proud of natural areas and use features for passive and active recreation	Potential for increased demand and degradation of features	<ul style="list-style-type: none"> The Schreiber Channel Provincial Nature Reserve is located along the north shore of Lake Superior. Lake Superior National Marine Conservation Area spans a large portion of the north shore of Lake Superior. Effective mitigation and environmental protection measures will ensure that the overall environmental integrity of the area is maintained. It is understood at this point in time that no net negative environmental effects are likely during the construction and operation phase of the used fuel repository itself.
Declining-Negative				
Neutral-Stable				
Environment – Integrity Maintained				
Increasing-Enhanced-Positive				
Uncertain				

5.6 COMMUNITY WELL-BEING SUMMARY

Based on the foregoing discussion, the APM Project has the potential to be a fit for the community of Schreiber. The APM Project has the potential to enable the aspirations of the community to be achieved and, foster well-being, as Schreiber defines it. Based on discussions within the community, it is understood that the APM Project would provide economic growth, stabilize and grow the population.

Table 11 below provides a summary for all five asset categories.

The introduction of the APM Project to a relatively remote Northern Ontario community such as Schreiber will create significant change. Positive changes include:

- Employment and business opportunities (direct and indirect)
- Population growth due to in-migration of workers will result in greater utilization of local community assets (infrastructure, housing, facilities and services)
- Utilization of available, serviced land
- Ability to retain youth/young families in the community
- Improved education and training, development of a skilled work force
- Enhanced self-sufficiency for individuals, families and the community as whole
- Improved tax base/municipal revenues

It is recognized that a few members of the community may be opposed to the APM Project. This is particularly the case with respect to potential and perceived effects on the natural environment and tourism. However, some residents see positive implications for the tourist industry as a result of increased population and tourism visitation to the area.

Some natural areas may be affected by the APM Project. Effective mitigation and environmental protection measures will ensure that the overall environmental integrity of the area is maintained.

Table 11: Overall Community Well-Being Implications

Criteria / Measures	CWB is Enhanced When ...	Current Schreiber Profile	Possible Schreiber Profile with APM Project	Observations and Implications
OVERALL CWB IMPLICATIONS:				
Human Assets	Population growth occurs and youth are retained in the community	Declining	Enhanced	<ul style="list-style-type: none"> APM Project would bring population growth, which is a key priority and aspiration for the community. Youth would be retained through increased employment opportunities and new residents would be attracted to the area. Educational and healthcare resources would be enhanced.
Economic Assets	Employment opportunities are available and tax base increases to fund community services and facilities	Stable	Enhanced	<ul style="list-style-type: none"> There will be increased employment opportunities and a more diverse range of jobs. Increased funding through a wider tax base would provide the financial resources for Schreiber to fund its infrastructure projects, educational developments, community and recreational facilities and programs and social services and organizations. The increased jobs from the APM Project would be the catalyst for Schreiber to enhance its community well-being.
Infrastructure	Infrastructure is maintained or improved to meet the needs of the community	Stable	Enhanced	<ul style="list-style-type: none"> The APM Project, while placing increased demands on some of the infrastructure and services, would overall provide increased funding to improve and enhance existing services.
Social Assets	Opportunities exist for recreation and social networking. Community is cohesive, and community character is enhanced.	Stable	Enhanced	<ul style="list-style-type: none"> The community would see benefit to its Social Assets through increased participation and funding to its recreational facilities and programs as well as its social services and organizations. Interest in the project is positive for many residents. Some uncertainty regarding the potential for APM Project to diminish community pride and image for some residents if there is perceived negative effects on the valued natural assets.
Natural Environment	Natural areas, parks and conservation reserves are preserved and maintained for use and enjoyment	Positive	Environment – Integrity Maintained	<ul style="list-style-type: none"> Some natural areas might be affected by the APM Project. Effective mitigation and environmental protection measures will ensure that the overall environmental integrity of the area is maintained. It is understood at this point in time that no significant negative environmental effects are likely during the construction and operation phase of the used fuel repository itself

Legend	
Declining – Negative	
Neutral – Stable	
Environment – Integrity Maintained	
Increasing – Enhanced – Positive	
Uncertain	

6.0 CRITERIA TO ASSESS FACTORS BEYOND SAFETY – SUMMARY

The previous discussion has taken a holistic approach to the assessment, taking into account the aspirations of the community and the implications of the project for community well-being. The NWMO acknowledges that the process of assessment of community well-being needs to be collaborative and reflective of the community. Before initiating the siting process, and beginning to engage interested communities in the assessment process to understand their aspirations, the NWMO identified five evaluation factors, which, at a minimum would need to be addressed.¹⁵¹⁶

Table 12 draws on information outlined in the previous discussion to understand the potential to foster well-being in Schreiber against these original factors. It summarizes preliminary findings about the implications of the APM Project, were it to be implemented in the community, on various factors of well-being. For many evaluation factors, four measures are used: maintained, enhanced, diminished or uncertain. For other evaluation factors two measures are used: Yes, or No. The overall conclusion using these evaluation factors and the understanding that has emerged to date is consistent with that outlined in the previous sections.

Over the course of discussions and conversations, the community identified a number of other important areas for consideration. The community expressed a strong desire to better understand how to engage neighbouring communities, communities on transportation routes and in particular area Aboriginal communities. Schreiber realizes that it would be essential to develop relationships with all of the foregoing to support the implementation of the project.

¹⁵ NWMO. 2010. *Moving Forward Together: Process for Selecting a Site For Canada's Deep Geological Repository for Used Nuclear Fuel*. Available online at: <http://www.nwmo.ca/sitingprocess>.

¹⁷ NWMO. November 2011. *Preliminary Assessment of Potential Suitability – Feasibility Studies*. Draft for Discussion with Communities Involved in the Site Selection Process.

Table 9 summarizes the preliminary assessment of Schreiber in terms of ‘factors beyond safety’.

Table 12: Summary Table of Criteria to Assess Factors Beyond Safety

Factors Beyond Safety	Evaluation Factors to be Considered	Potential Effect of APM Project	Discussion Based on Preliminary Assessment
Potential social, economic and cultural effects during the implementation phase of the project, including factors identified by Aboriginal Traditional Knowledge	Health and safety of residents and the community	Maintained	<ul style="list-style-type: none"> There is a strong safety case, but the community wants to learn more about safety and health considerations to strengthen their confidence in the safety of the project.
	Sustainable built environments	Enhanced	<ul style="list-style-type: none"> Community infrastructure and built fabric will be enhanced through project activities and investments in the community.
	Sustainable natural environments	Maintained	<ul style="list-style-type: none"> Some natural areas might be affected by the APM Project. Effective mitigation and environmental protection measures will ensure that the overall environmental integrity of the area is maintained. It is understood at this point in time that no significant negative environmental effects are likely during the construction, operation and decommissioning phases of the used fuel repository itself
	Local and surrounding area economy and employment	Enhanced	<ul style="list-style-type: none"> Significant employment and population growth would occur in Schreiber and surrounding communities – hundreds of new jobs might be created in Schreiber. With these jobs comes the potential to double the current population of Schreiber. New opportunities would be created for local businesses to serve the project and growing population.
	Community administration and decision-making processes	Enhanced	<ul style="list-style-type: none"> Local leadership has demonstrated interest in the project and going forward it is expected that local leadership will ensure residents have opportunities to learn more and engage in community decision making.
	Balanced growth and healthy, livable communities	Uncertain	<ul style="list-style-type: none"> Schreiber has aspirations to grow its population and economy as platforms for its strategic plan. The APM Project generally appears to be a fit with primary community goals and aspirations with respect to economic development and growth. There is some uncertainty as to the alignment of the APM Project with the community’s vision and values for the natural environment with a particular concern around the relationship with the Lake Superior National Marine Conservation Area.
Potential for enhancement of the community’s and surrounding area’s long term sustainability through implementation of the project, including factors identified by Aboriginal Traditional Knowledge	Health and safety of residents and the community	Maintained	<ul style="list-style-type: none"> There is a strong safety case, however engagement of surrounding communities is at a preliminary stage and further dialogue would be required to understand and address questions and concerns about safety and health considerations related to the repository and transportation of used nuclear fuel.
	Sustainable built environments	Enhanced	<ul style="list-style-type: none"> Infrastructure and built fabric will be enhanced through project activities and investments in the community and surrounding areas.
	Sustainable natural environments	Maintained	<ul style="list-style-type: none"> Some natural areas may be affected during the construction, operation and decommissioning phases of the project. Effective mitigation and environmental protection measures will be required to ensure that the overall environmental integrity of the area is maintained.
	Local and surrounding area economy and employment	Enhanced	<ul style="list-style-type: none"> Substantial employment and economic development opportunities would extend to the surrounding area.
	Community administration and decision-making processes	To be determined	<ul style="list-style-type: none"> Engagement of surrounding communities is at a preliminary stage and further dialogue will be required to explore decision making issues and capacities.
	Balanced growth and healthy, livable communities	Enhanced	<ul style="list-style-type: none"> Surrounding area communities are collectively seeking economic development and growth. The APM Project generally appears to be in alignment with these aspirations.
Potential to avoid ecologically sensitive areas and locally significant features, including factors identified by Aboriginal Traditional Knowledge	Ability to avoid ecologically sensitive areas and locally significant features	Yes	<ul style="list-style-type: none"> The area contains potentially suitable sites for the project thus providing flexibility in selecting specific sites that can avoid ecologically sensitive areas and local significant features.
Potential for physical and social infrastructure to adapt to changes resulting from the project	Potential for physical infrastructure to be adapted to implement the project	Yes	<ul style="list-style-type: none"> There are no major infrastructure limitations in Schreiber or the surrounding region to impede project implementation. Schreiber and the surrounding areas are highway accessible, have social and economic support services, and capacity to absorb the anticipated growth in population and economic activity. Some investments would be required to accommodate identified specific infrastructure deficiencies.

Factors Beyond Safety	Evaluation Factors to be Considered	Potential Effect of APM Project	Discussion Based on Preliminary Assessment
	Potential for social infrastructure to be adapted to implement the project	Yes	<ul style="list-style-type: none"> The community of Schreiber appears to have the necessary core of social infrastructure in place to plan and adapt to changes resulting from the project.
	The NWMO resources required to put in place physical and social infrastructure needed to support the project	To Be Determined	<ul style="list-style-type: none"> In all likelihood, Schreiber would require assistance in terms of planning, and human and financial resources. Further studies will be required to explore the specifics of these requirements.
<p>Potential to avoid or minimize effects of the transportation of used nuclear fuel from existing storage facilities to the repository site</p>	The availability of transportation routes (road, rail, water) and the adequacy of associated infrastructure and potential to put such routes in place from a social perspective	To Be Determined	<ul style="list-style-type: none"> Schreiber is well-situated along the TransCanada Highway and has access to rail transportation. The community and region have access to multiple modes of transportation. Project transportation will need to address community, logistical and regulatory matters across multiple provinces and multiple jurisdictions including; Ontario, Quebec and New Brunswick. Engagement of surrounding communities will be required to help build understanding and address questions and concerns.
	The availability of suitable safe connections and intermodal transfer points, if required, and potential to put them in place from a social perspective	To Be Determined	<ul style="list-style-type: none"> Engagement of surrounding communities and those on potential transportation routes is at a preliminary stage and further dialogue would be required to understand and address questions and concerns.
	The NWMO resources (fuel, people) and associated carbon footprint required to transport used fuel to the site	1,070 – 2,010 tonnes of equivalent carbon dioxide emission is expected to be produced per year	<ul style="list-style-type: none"> In a scenario of all road transport of 4.6 million fuel bundles from the interim storage sites to an APM facility near Schreiber, approximately 2,010 tonnes of equivalent carbon dioxide emissions are expected to be produced per year. In a scenario of transport mostly by rail mode, approximately 1,070 tonnes of equivalent carbon dioxide emissions are expected to be produced per year.
	The potential for effects on communities along the transportation routes and at intermodal transfer points	To Be Determined	<ul style="list-style-type: none"> There is a robust technical safety case for the safe and secure transport of used nuclear fuel. However engagement of surrounding communities and those on potential transportation routes is at a preliminary stage and further dialogue will be required to understand and address questions and concerns.

7.0 RELATIONSHIP BUILDING AND ENGAGEMENT SUMMARY

7.1 OVERVIEW OF ENGAGEMENT

NWMO has engaged with Schreiber leadership, community members, surrounding communities and First Nations/Aboriginal organizations through a variety of means, including:

- Several community open houses
- Regular attendance at the Community Liaison Committee meetings
- Both informal and structured interviews with community members
- Facilitating the Community Liaison Committee web page and newsletters
- Presentations to school classes at open house events
- Preparation of written materials
- Informal tours and visits with local residents
- Attendance at Schreiber Heritage Days
- ‘Ask the NWMO’ columns in regional newspapers
- Meetings with nearby First Nations and Métis
- Attendance at regional meetings, conferences (e.g., with Northeast Superior Regional Chiefs’ Forum and Federation of Northern Ontario Municipalities)
- NWMO Mobile Transportation Exhibit
- Nuclear waste management facility tours

Initial discussions with a cross-section of community leaders, briefings and conversations with community groups, and conversations with residents during open houses suggest there is interest in the community to continue to learn about the project and consider hosting the project in the area. To this end, opportunities for preliminary discussions were sought with:

1. Local political leaders (e.g., Mayor and Councillor)
2. Members of the Community Liaison Committee
3. Local business owners/operators
4. Local service providers (e.g. emergency services, social services, education)
5. Community groups (e.g. clubs, associations)
6. Surrounding community leaders
7. Residents (including neighbouring Rosspoint and unorganized areas)
8. First Nations and Métis Communities in the vicinity

Based on these discussions, there appears to be growing potential in the local community to sustain interest. There also appears to be growing interest to continue and move forward with the siting process.

The community has taken initial steps to engage its neighbours, including Aboriginal peoples, and has begun to set the foundation for further constructive consideration of the project and opportunity to work collaboratively to explore the project and interest in the broader area.

7.2 SUMMARY OF ISSUES AND QUESTIONS RAISED

This section summarizes the key challenges, issues and comments as heard from the community and other persons engaged.

7.2.1 KEY CHALLENGES, ISSUES AND OPPORTUNITIES

The key challenges for Schreiber, as identified through the various engagement activities, is to grow the population and create community and economic growth for residents.

Economic growth in Schreiber is necessary to address Schreiber's most important challenges such as:

- A declining population;
- A lack of retail and commercial/industrial services;
- Decreasing social and recreational programs;
- Out-migration of youth in search of economic opportunities;
- Constrained municipal financial circumstances; and,
- A tax base mostly dependent on residential assessments.

The tourism industry is also experiencing declines for various reasons – the most notable is a dependency on American clientele who are similarly experiencing difficult economic times. As a result of recent market trends and global economic occurrences, American clientele have had to reduce travel expenditures, resulting in a decline to Schreiber's tourism industry. While tourism has a role in the local economy, it will not be an answer to ensuring the community's long-term sustainability.

The APM Project, however, is recognized as a potential means to ensure the long-term viability of Schreiber. The APM Project can contribute to decreasing dependency on rail transportation and resource-based industries such as forestry and mining.

7.2.2 SUMMARY OF KEY INTERESTS/QUESTIONS

Throughout the various engagement activities, interests and questions expressed by Community Liaison Committee members and community members were documented. In Schreiber, the majority of people engaged were perceived to be supportive of the APM Project and were interested in learning more. The key interests expressed included the following:

- Economic challenges in the community;
- Health, safety, and environmental risk; and,
- Transportation.

Economic challenges in the community

The Schreiber Community and Economic Development Strategic Plan, along with information obtained from Schreiber CLC discussions, identified economic development issues in Schreiber which included the following:

- Tax debt problems;
- School funding;
- Access to services;
- Funding of programs and services;
- No available industrial land;
- Limited number of industrial/commercial buildings; and,
- Abandoned industrial, commercial, and residential properties.

Schreiber has experienced a loss of economic opportunities since the closure of the Terrace Bay Pulp Mill. However, with the recent sale and re-commissioning of the Terrace Bay Pulp Mill and the potential APM Project, both are a means to provide long-term economic sustainability for the community.

Questions on the APM Project focused on the types of employment opportunities that would be available to residents and the number of jobs/workers required for different project/facility phases.

Health, safety, and environmental risk

Given the nature of the waste (i.e., used nuclear fuel) questions arose regarding health and environmental risks associated to the APM Project and facility location. Contamination of lakes and groundwater and the detrimental effect that would have on natural resources (i.e., forests and wildlife), and hunting and fishing practices (i.e., trapping), was a major concern for local and area residents.

Residents emphasized that safety of the APM Project remains a source of concern for many Schreiber residents. Some concerns focussed on the fear of the unknown and the negative perceptions associated with nuclear products and their safety which may be hindering some public acceptance of the APM Project.

The unique natural areas linked to Lake Superior are also a prime consideration requiring protection of the environment.

Transportation

In general, transportation questions and concerns were process oriented in that they focused on how nuclear fuel materials would be transported (i.e., rail, boat, or truck) to the APM facility. Transportation safety concerns were also expressed by some residents.

7.2.3 ONGOING ENGAGEMENT

Going forward, engagement with surrounding communities will continue to develop. Schreiber anticipates ongoing engagement with the NWMO to learn more about the project and to work with the NWMO in a long-term partnership that will optimize well-being in the community and surrounding area.

8.0 KEY QUESTIONS IN THE SITE SELECTION PROCESS – SUMMARY

At the outset of the site selection process, the NWMO framed four key questions respectively addressing safety, the well-being of the community, the well-being of surrounding area communities and the potential to foster sustained interest in exploring this project through subsequent steps in the site selection process.¹⁷ The discussion which follows addresses and elaborates on a subset of these questions related to community well-being in the context of Schreiber.

The preceding sections have looked at implementation of the APM Project in Schreiber and the implications this might have on community well-being of Schreiber. Additionally, key issues and concerns identified through engagement activities have been highlighted. Through desktop research, dialogues with community members and leaders and on-going analysis, it is understood the Schreiber is interested in considering hosting the APM Project in the area to realize growth and development opportunities within the community and surrounding area.

The community of Schreiber understands that this siting process, in partnership with the NWMO, will assist their community over time to get the information they require to reflect upon their willingness to continue in the site selection process and to decide whether or not they are interested in continuing to the next phase of studies.

There is high potential for sustained interest in the local community. Schreiber has demonstrated strong community leadership. Community leaders and many residents are supportive and in favour of proceeding with the process. There is stability in the community. There are, however, a number of safety and security concerns with respect to the APM Project. There are some segments of the community who question whether development associated with the project aligns with the values and aspirations of the community. In order to sustain interest in the APM Project in the community, it will be important to address questions about safety and security which continue to be part of the discussion. In addition, there is sensitivity regarding the natural areas surrounding the community and its proximity to the shoreline. In order to continue in the process, residents and the community will need to be assured that these sensitive areas will remain protected and preserved and any perceived effects will be addressed.

There is potential for sustained interest in the surrounding communities. Schreiber has recently taken steps to engage its neighbours – including Pays Plat First Nation, Jackfish Métis Association, Terrace Bay and Rossport – in learning more about the APM Project. Schreiber has demonstrated a strong working relationship with non-Aboriginal neighbours as they have close ties and share many services with Terrace Bay and Rossport; they also share some services with Nipigon such as the Ontario Provincial Police Department. Schreiber has taken steps to develop and build relationships with the nearest First Nations and Métis communities. Representatives of the Jackfish Métis Association have attended CLC meetings in the community. Interest currently exists in some

¹⁷ NWMO. November 2011. *Preliminary Assessment of Potential Suitability – Feasibility Studies*. Draft for Discussion with Communities Involved in the Site Selection Process.

neighbouring communities that are also participating in the NWMO ‘Learn More’ process, (i.e., Manitowadge and Nipigon); however, more interest can be built with more regional outreach.

There is potential for the APM Project to foster community well-being in Schreiber. Schreiber seeks sustainable growth in the community; they want to return to the more robust community of its past. There is strong support for goals of growth and the development of cohesion in the community. A very strong volunteer base reinforces community cohesion. With the ability of the community to work through problems and past challenges as a result of boom/bust cycles, Schreiber has the potential to weather opposition if questions on safety and security are effectively answered. Schreiber has good services, programs, and facilities and has the potential to attract and retain workers in the community. Schreiber has also indicated that natural environment features (e.g., Lake Superior) and local tourism features must be protected.

There is potential to foster well-being in surrounding communities. Schreiber shares aspirations with many surrounding communities in the area. Surrounding communities want growth, stability, and sustainability. As such, the APM Project benefits can assist the area around Schreiber. Surrounding communities have also shared their interest in protecting the natural environment. This project will be implemented through a long-term partnership involving the community, neighbouring communities and Aboriginal peoples in the area and the NWMO. Only through engagement, dialogue and collaboration will the NWMO ensure that needs are addressed at each stage of the process and identify the specifics of how a partnership arrangement could work.

There are some uncertainties associated with the preceding analysis due to the preliminary nature of the work at this stage. These uncertainties and challenges include:

1. Specific land areas that are socially acceptable would need to be identified:
 - a. Community input is required to identify areas which should be reserved for other uses or preservation. The remaining areas must overlap with potentially suitable siting areas identified through scientific and technical studies. Some areas (in proximity to the Marine Conservation Reserve) have already been identified by the community as unsuitable for the APM Project.
 - b. Further engagement with potentially affected Aboriginal communities is required, including Aboriginal Traditional Knowledge holders in the area. The NWMO has stated that they acknowledge, respect and honour that Aboriginal peoples - Indian, Inuit and Métis peoples of Canada - have unique status and rights as recognized and affirmed in s.35 of the Constitution Act (1982). The NWMO is committed to respecting the Aboriginal rights and treaties of Aboriginal peoples¹⁸.
2. Project implementation (including engineering, logistics and/or community well-being) must align with specific community aspirations:
 - a. An acceptable area and regional project implementation plan must be identified which aligns ultimate project configuration with area expectations.

¹⁸ NWMO. 2010. *NWMO Aboriginal Policy*.

http://www.nwmo.ca/uploads_managed/MediaFiles/1513_nwmo_aboriginalpolicy-2010en.pdf

- b. Effective implementation of project planning at a broader level, involving the surrounding communities and potentially affected Aboriginal peoples, will be important in successful implementation of the project.
3. Interest in the community for further learning about the project needs to be sustained:
 - a. The site selection process spans several years and interest and conversation in the community and area needs to be sustained throughout this process, including multiple election cycles
 - b. The potential effects of the project on the community and area would be substantial and the community and area will need support to further explore their interest and take an active role in discussions of how the project should be implemented.
 - c. Opposition groups, largely from outside of the area, may actively seek to influence community decision-making and community leaders will need to respond to these pressures. Schreiber will require support to prepare for the next phases of the siting process if they are to proceed.
4. Transportation routes and mode(s) need to be designed and configured taking into account social values.
 - a. Transportation will be spatially extensive from current interim storage sites to the repository. Regulatory matters along routes in several Provinces including, New Brunswick, Quebec and Ontario would need to be addressed. Social questions and concerns would also need to be heard and taken into account.
5. Environment and Safety evaluations need to be aligned with community input.
 - a. This requires regard for input from the community and surrounding communities.
 - b. This requires engagement by the NWMO and input from the community and surrounding communities. This may require capacity building to enable this input, which would include Aboriginal Traditional Knowledge.
 - c. Input from transportation route communities will also need to be incorporated.

9.0 REFERENCES

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