

# International Boundary Commission

## Annual Joint Report 2008



1908 — 2008



International Boundary Commission  
Commission de la frontière internationale

*Maintaining a peaceful boundary for more than a century*  
*Le maintien d'une frontière pacifique depuis plus d'un siècle*





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**Cover Page photographs:**

Background – Peace Arch, Blaine WA & Surrey BC;

Top & bottom – American and Canadian staff, respectively, of the 1872-1874 Boundary Commission, one of many ad hoc Commissions that were dwarfed by the permanency of the International Boundary Commission in 1908;

Middle – Plaque placed at Peace Arch (taken by Robert Allen BCLS).



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## Introduction

This is the 84<sup>th</sup> Annual Joint Report of the International Boundary Commission (IBC), and sets out how the boundary between Canada and the United States – from Atlantic to Pacific Oceans, and from Pacific Ocean to Beaufort Sea – was maintained in 2008. This Report is an overview of activities, and correlates maintenance activities with short- and long-term maintenance plans.

This is the second report to be published online, thus allowing access to the information while minimizing printing and distribution. The report will be produced in two parts. First, this narrative is available for download on the IBC website. The second part, containing the technical appendices as required by treaty, will be stored in a Geographic Information System (GIS) data base. A nominal number of hard copies will be produced for formal distribution and archival purposes.

The boundary between Canada and the United States came into being as a result of 20 Treaties, Conventions, Protocols, Decisions and Awards between the 1783 *Treaty of Peace* (between Great Britain and the United States) and the 1925 *International Boundary Treaty* (between the United States and Canada). Although there were sundry Commissaries and ad hoc boundary commissions over the years, the IBC dates itself to the 1908 *Treaty of Washington*. This treaty appointed two Commissioners to locate and mark the boundary between the two countries. A permanent IBC, established by the 1925 Treaty, has a mandate to maintain the boundary under the supervision of the two Commissioners.

The IBC's mandate is thus found in the 1908 and 1925 treaties, and for the Canadian section, in the *International Boundary Commission Act*, 1960. It is structured with a Canadian and a United States section, each of which reports to its respective Commissioner. Technical, administrative and policy personnel within each section are supplemented by field crews and seasonal employees. The Canadian Commissioner is Peter Sullivan, who has been appointed by Order in Council by virtue of being the Surveyor General for Canada Lands. The United States Commissioner is David Bernhardt, appointed by the President, who also serves as the Solicitor to the Department of the Interior.



Peter Sullivan  
Canadian Commissioner



David Bernhardt  
United States Commissioner

## MISSION



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*"The Commissioners appointed under the provisions of the Treaty of April 11, 1908, are hereby jointly empowered and directed: to inspect the various sections of the boundary line between the Dominion of Canada and the United States and between the Dominion of Canada and Alaska at such times as they shall deem necessary; to repair all damaged monuments and buoys; to relocate and rebuild monument's which have been destroyed; to keep the boundary vistas open; to move boundary monuments to new sites and establish such additional monuments and buoys as they shall deem desirable; **to maintain at all times an effective boundary line** between the Dominion of Canada and the United States and between the Dominion of Canada and Alaska"*

*(Treaty of Washington 1925)<sup>1</sup>*

## 5 and 15 Year Maintenance Plans

### **Background**

In 2004, a revised maintenance plan<sup>2</sup> (consisting of 5 and 15 year forecasts) was developed to better address the priorities of the IBC, given the diversity of maintenance needs. The 15-year forecast was designed to address recurring routine maintenance (brush clearing, monument maintenance and surveying) Maintenance cycles were adjusted to better address increased security by U.S. and Canadian Customs and Immigration officials as well as high traffic areas along the boundary. The 5-year plan focuses on projects that had fallen behind as well as projects designed to modernize certain aspects of the Commission's operations. The 5 year plan also addresses extraordinary issues along the boundary. These include replacing aging maritime range towers, modernizing map generation and processing a backlog of survey data. The revised maintenance plan replaced the previous iteration from 1996 and took effect in 2005.

### **Progress to Date**

The 5-year forecast table (Fig. 1) shows that several maintenance items have been delayed. There is a significant lag between expected and actual maintenance over the 5-year period, for three main reasons (Fig. 2). First, boundary mapping has not proceeded as forecast, because alternative efficiencies have been sought in partnerships with other agencies. Both the Royal Canadian Mounted Police (RCMP) and the National Geospatial and Intelligence Agency (NGA) have agreed to provide imagery, which will reduce costs. In addition, mapping standards are being developed before proceeding with large-scale map production. The second reason is that the cost of replacing the Point Roberts Range towers was significantly more than forecast in the revised maintenance plan of 2004. Finally the U.S. section has not been funded for the additional costs associated with the plans.

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<sup>1</sup> *Treaty regarding the Demarcation of the Boundary between the United States and Canada.* Signed February 24, 1925. British Treaty Series 1925/37, U.S. Treaty Series 720

<sup>2</sup> Paquette & Moore. *Report on the Present State of Maintenance of the United States and Canada Boundary and Recommendations for the Future.* February 2004.





Years	PROJECT PROPOSED	PERCENTAGE COMPLETE
2005-2009	St. Francis River, GPS survey and marking boundary	Completed in 2004
	<i>Pt. Roberts Range Towers, construction</i>	<i>100% Complete</i>
	<i>Boundary Mapping</i>	<i>5% Complete</i>
	<i>Survey Data Processing / Adjustment</i>	<i>50% Complete</i>
	<i>Implementation of GIS Technology</i>	<i>50% Complete</i>
	<i>Halls Stream, surveying and marking boundary</i>	<i>75% Complete</i>
	49th Parallel to the Pacific, monumentation and GPS	Completed in 2006
	<i>SE Alaska / Portland Canal, GPS Surveying</i>	<i>60% Completed</i>
	<i>49<sup>th</sup> Parallel (W. Kootenay to Pacific), GPS Survey</i>	<i>50% Completed</i>

Fig. 1 – Summary of 5-Year Plan (non-recurring projects)

Although significant progress is being made, adjustments will be required such that the 15-year plan can be realized. Strategies employed by the Commission staff to close the gap on the 15-year plan include: utilizing new technology, reviewing vista clearing requirements and developing partnerships with key users of the boundary. It is hoped that these strategies, in conjunction with sufficient funding, will ensure that the long range plan is realized.

#### 5 Year Maintenance Progress

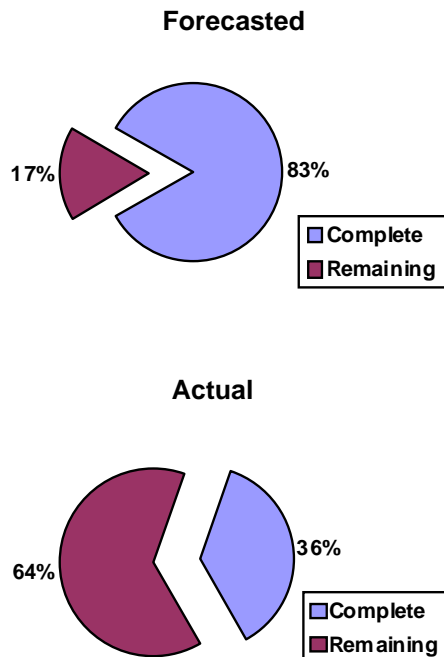


Fig. 2 – Progress against 5 year plan

#### 15 Year Maintenance Progress

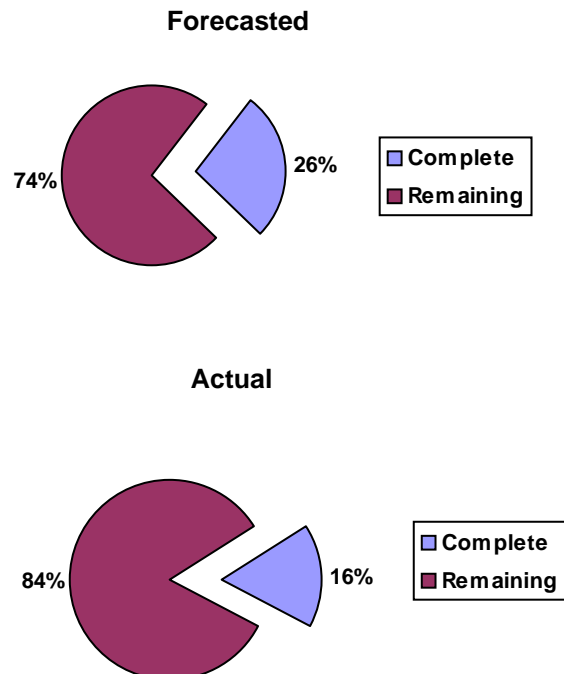


Fig. 3 – Progress against 15 year plan



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## **2008 Highlights**

### ***Centennial Celebration***

This year, the IBC celebrated its 100<sup>th</sup> year anniversary. In commemoration, two celebrations were held. The first took place at the Peace Arch Park located at the Blaine, WA-Pacific HWY crossing in June. A celebration and unveiling of the centennial plaques ensued. Each read, "Maintaining a Peaceful Boundary for more than a century". A reception was also held at the Canadian Embassy in Washington, D.C. hosted by the Honourable Michael Wilson, Canadian Ambassador to the United States in recognition of the many years the IBC has worked together providing for an "effective" boundary.

### ***Maintenance Activities***

For the 2008 summer field season, the IBC spent the majority of its time in the Pacific Northwest.

Canadian and American field crews performed GPS surveys along the boundary in Southeast Alaska / British Columbia.

New Range Towers were erected across Boundary Bay which is located on the 49<sup>th</sup> Parallel on the Washington British Columbia boundary just west of the Peace Arch Park.

GPS surveys were also conducted in the Cascade Mountains by an American field party in both the early and latter parts of the field season.

In the eastern part of the boundary, 20.1 km (12.25 mi) of vista was cleared on the 45<sup>th</sup> parallel along the New York / Quebec border.

Monuments were also recovered and inspected along the Highlands by the Canadian Section.

### **Southeast Alaska / British Columbia**

A joint effort between American and Canadian field crews took place this summer to resurvey the boundary in Southeast Alaska / British Columbia from the end of the Portland Canal to Mt. St. Elias and the 141<sup>st</sup> Meridian. With a Canadian crew working in the north and an American crew working in the south, the goal was to join surveys in the vicinity of the Taku River. Weather was the largest factor and hampered progress for the American crew which was based in Wrangell, AK. Operations were kept below 4000 ft for much of the project proving once again the notorious difficulties in working this section of the boundary. The Canadian crew fared much better to the north where weather patterns usually are and were quite different. Rather than limiting operations from inclement weather, the Canadian crew was able to extend their portion of the project to make good use of favorable conditions.



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Establishing control point "Schepp"  
in British Columbia



Monument 38 in Southeast Alaska / British Columbia

### Boundary Bay (49<sup>th</sup> Parallel)

A multi year project to better demarcate the border across Boundary Bay was finally concluded this summer. A series of new range towers were erected in the bay between Blaine, WA/ Surrey, B.C. and Point Roberts, WA/ Tsawassan, B.C. The original towers were either removed or modified and the border supplemented with a series of lighted structures which spans the 20 km (12.5 mi) stretch of border across Boundary Bay. Additionally, the ranges on the west side of Point Roberts were also removed or modified and supplemented. In total, 4 existing towers were modified, 5 new structures were constructed, and 2 range towers were completely removed. A GPS survey was conducted to position the new structures.



Kevin Bagwell verifies structure positioning in  
Boundary Bay



Looking east at IBC Light "B" on the west side of  
Point Roberts



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### **Cascade Mountains (49<sup>th</sup> Parallel)**

An American field party spent the beginning and end of the field season performing a GPS survey through the Cascade Mountains along the 49<sup>th</sup> parallel in Washington / British Columbia. In this rugged mountainous region, weather proved to be the most difficult factor, hampering progress in the early part of the summer. The helicopter pilot noted it was the wettest summer he could remember in over ten years. During periods when flying was limited, landing zones were cut to gain access to some monuments.



Downloading GPS data in the Cascade Mountains of Washington / British Columbia

### **New York / Quebec (45<sup>th</sup> Parallel)**

An American crew performed 20.1 km (12.25 mi) of vista clearing along the 45<sup>th</sup> parallel in New York / Quebec which is commonly referred as the “West Line”. Last cleared in the 1990’s by bulldozer, this fast growing section of boundary took seven staff a total of seven weeks to clear with brush and chain saws. A combination of rocky terrain and “beaver enhanced” low lying areas were a great field test for some of the IBC’s newer employees as well as the seasoned veterans. Weather finally seemed to cooperate with our efforts and the change in seasons was welcomed.



Swamp crossing during clearing operations along the 45<sup>th</sup> parallel in New York / Quebec. Shown left to right: Graig Hill, Steve Schepp, Kevin Bagwell, and Travis Hill.





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### **North Dakota, Montana / Saskatchewan (49<sup>th</sup> Parallel)**

Monument recovery was performed by a two man American crew during the last few weeks of the summer season along the 49<sup>th</sup> parallel in North Dakota, Montana / Saskatchewan. The prairie was a welcome site for those who spent most of the season performing the dangerous work of surveying in remote mountainous regions.

### **Maine, New Hampshire / Quebec (Highlands)**

Monument recovery was performed by a Canadian crew along a very rugged part of the Highlands.

### ***Supplementing Major Field Activities***

- A 77.1 km Canadian clearing contract along the 49<sup>th</sup> Parallel in the Cascade Mountains was completed, but upon inspection, deficiencies were found. The contract is still underway and has been extended to August 2009.
- A 99.5 km Canadian clearing contract along the 49<sup>th</sup> Parallel in the Kootenay Range of the Rocky Mountains was completed.
- U.S. Clearing contract for 4.8 km (3mi) was completed along the 49<sup>th</sup> Parallel at the western edge of Waterton-Glacier International Peace Park in accordance with a memorandum of understanding between the IBC and the U.S. National Park Service.

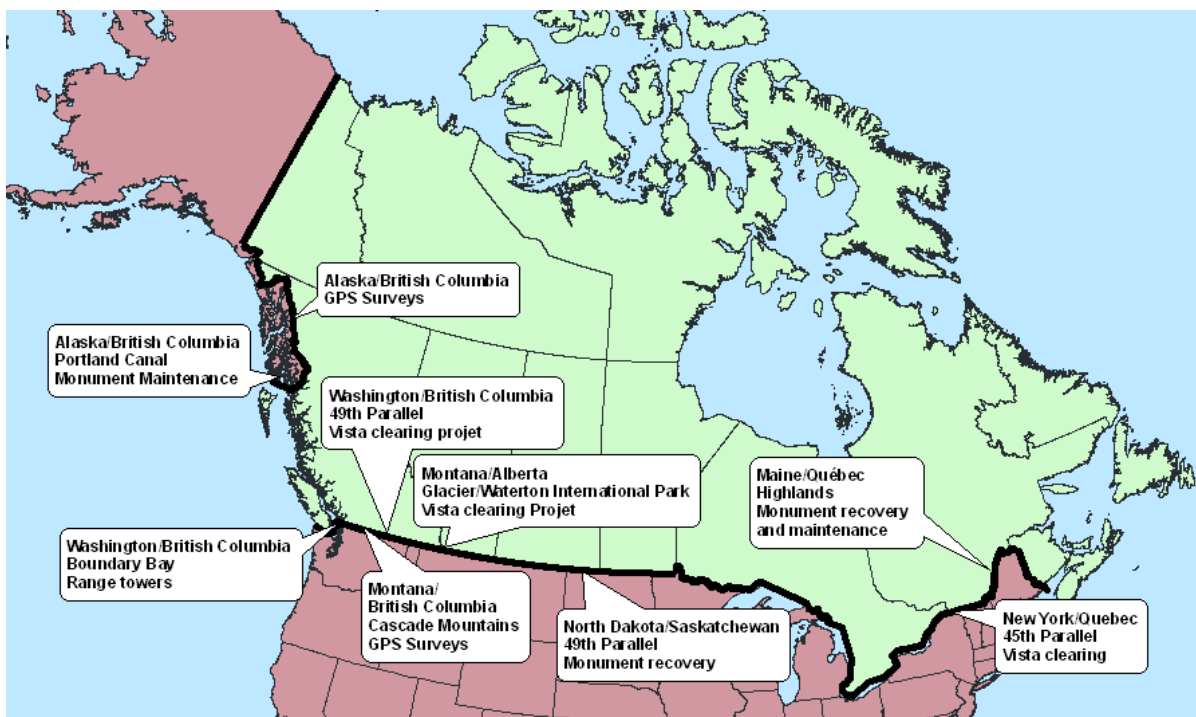


Canadian field party resetting a monument in Southeast Alaska / British Columbia



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Location of IBC Maintenance activities in 2008

### ***Commissioners Inspections***

- June: Stanstead/Derby Line & Halls Stream Vermont-New Hampshire/Quebec
- June: Point Roberts/Blaine Washington-British Columbia
- July: Wrangell, Southeast Alaska / British Columbia
- August: Ross Lake, Washington / British Columbia
- September: 45<sup>th</sup> Parallel, New York / Quebec
- December: Blaine, Washington / British Columbia



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Preparing GPS for observations at Mon152 in Southeast Alaska

### ***Geographic Information System (GIS) Development***

With the completion of the conceptual design of the IBC's GIS in 2008, development of the system is rapidly accelerating with continued support from Environmental and Systems Research Institute (ESRI). A distributable shapefile of the boundary is near completion and will be available in early 2009. Interagency cooperation among interested partners has led to acquisitions of imagery which will greatly benefit our mapping goals. The GIS will be used to modernize information management in the IBC. Applications will include: managing the 15 year maintenance cycle, automated map generation on demand and field logistics management.

### ***Regulatory Items***

The mandate of the IBC includes maintaining a clear boundary line. As part of this mandate, authorization was granted by the Commissioners for the following projects:

- Construction of a 20 inch pipeline near Neche, North Dakota.
- Repair existing footbridge across the St. Francis River Pohenegamook, Quebec.
- Construction of a 36 inch pipe line near Neche, North Dakota
- Existing pipeline repairs near the Huntingdon, BC / Sumas, WA crossing.
- Relocate power line at the Armstrong, Quebec / Jackman, Maine Crossing.
- Construction of an oil pipeline across the boundary near Winkler, Manitoba / Walhalla, North Dakota.
- Road improvements Jackman, Maine / Armstrong, Quebec crossing.
- Road improvements at the Danville, WA / Carson, BC crossing and the Laurier, WA / Cascade, BC crossing.



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## Financial Report<sup>3</sup>

	Expended By United States Section (U.S. \$)	Expended By Canadian Section (Canadian \$)
<b>Total to March 31, 2007</b>	<b>\$12,767,644.38</b>	<b>\$14,426,578.77</b>
<b><u>From April 1, 2007 to March 31, 2008</u></b>		
Quebec – Vermont, New Hampshire (Halls Stream)		\$330,272.00
Minnesota – Ontario (Boundary Waters)	\$77,353.00	
Inspection and Remarking Centerline (North Line)	\$2,490.00	
Vista Clearing Contract Southeast Alaska – British Columbia		\$368,550.00
Passamaquoddy Bay Range Mark Maintenance Contract	\$22,500.00	
Vista Clearing Contract Inspections		\$8,136.00
ESRI Development GIS Contract		\$139,770.00
ESRI Licenses	\$5,319.00	
Boundary Bay/Point Roberts Range Towers Contract	\$398,000.00	
\$191,260.00		
<b><u>Other Expenditures</u></b>		
Point Roberts and Blaine Range Lights		\$101.00
Lights for New Range Towers Boundary Bay	\$10,951.00	
Mapping of the Canada/US International Boundary		\$7,829.00
Digital Imagery & Map Purchases		\$6,575.00
Joint Annual Report 2005 (design)		\$4,699.00
Boundary Monuments/TP Disks/Marker Posts		\$57,133.00
Monument Database	\$6,351.00	
Vehicle Purchase (ATV, ATV Tracks, 5-ton Truck, Pick-up)	\$14,039.00	\$175,152.00
Total Station		\$9,900.00
Plotter (20% cost for usage of IBM related matters)		\$2,848.00
Vehicle Licences/repairs		\$42,098.00
Field Equipment Support Service (NRCan)		\$19,156.00
Database Compilation		\$28,605.00
<hr/>		
<b>Sub-Total for 2007/2008</b>	<b>\$537,003.00</b>	<b>\$1,392,084.00</b>
<hr/>		
<b>Total to March 31, 2008</b>	<b><u>\$13,304,647.38</u></b>	<b><u>\$15,818,662.77</u></b>

<sup>3</sup> The financial report does not correspond well to 2008 activities; it primarily deals with 2007 activities.





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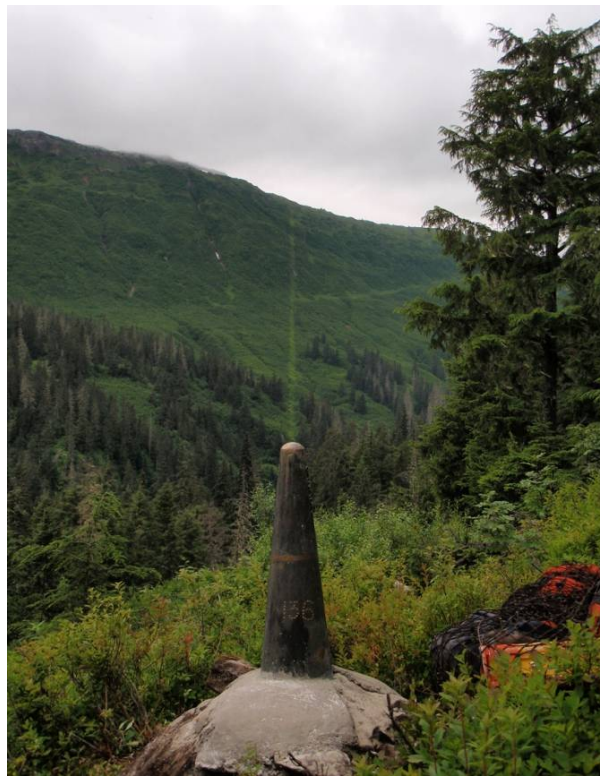


## A Look Ahead to 2009

### *Maintenance Activities*

Several of the items listed in the 5-year plan (priority projects) are scheduled to either commence or be completed in 2009. Among them:

- 49<sup>th</sup> Parallel (Minnesota- Manitoba) – Clearing the boundary vista for approximately 50 miles.
- North Line (Maine – New Brunswick) – Clearing the boundary vista for approximately 35 miles.
- Southeast Alaska – Completing the survey and monumentation of the Alaskan panhandle
- Portland Canal – GPS survey of all reference monuments.
- Halls Stream (New Hampshire – Quebec) – Monumentation and clearing of the boundary vista
- 49<sup>th</sup> Parallel (Washington- British Columbia) clearing and monumentation Fraser Valley.



*Monument 136 in Southeast Alaska / British Columbia*



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Respectfully Submitted:

Peter Sullivan  
Canadian Commissioner

Kyle Hipsley  
United States Commissioner  
(Acting)

*OCTOBER 6th, 2009*  
Date:

*9/22/09*  
Date:

David Bernhardt was the United States Commissioner in 2008. His term ended in January 2009, before this Annual Joint Report was finalized

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## Appendix A – 15 Year Maintenance Plan

(\*) denotes change from 2007 Annual Report and reflects current status

YEAR	PROJECT PROPOSED	PERCENTAGE COMPLETE
2005	Passamaquoddy Bay, inspection & clearing	Completed 2007
	North Line & Monument Brook, vista clearing	Completed 2007
	Southwest & South Line, clearing & monumentation	Completed in 2005
	Highlands (S.W. Section), vista clearing	Completed in 2006
	West Line (Vt- Que) brush, side clear, monumentation	20% Complete (*)
	49 <sup>th</sup> Parallel (Pemb.-Turtle Mts.), vista clearing	Completed in 2006
	49 <sup>th</sup> Parallel(Foothills to W. Koot.), vista clearing	Completed in 2006
	S.E. Alaska / Portland Canal, monumentation & clearing	50% Complete
	St. Clair River, monumentation & GPS surveying	Completed in 2005
2006	North Line & Monument Brook, vista clearing	50% Complete 2007 (*)
	Southwest & South Line, monumentation	Completed in 2005
	Highlands (S.W. Section), vista clearing	Completed in 2005
	West Line (NY- Que) brush, side clear, monumentation	No Work Completed (*)
	Rainy River, inspection & monumentation	50% Complete (*)
	49 <sup>th</sup> Parallel (Pemb.- Turtle Mts.), vista clearing	Completed in 2006
	49 <sup>th</sup> Parallel (Foothills to W. Koot.), vista clearing	Completed in 2006
2007	St. John River, inspection & monumentation	50% Complete (*)
	Southwest & South Line, monumentation	Completed in 2005
	Highlands (N.E. Section), vista clearing	Completed in 2005
	West Line (N.Y.- Que),brush, side clear, monumentation	No work completed
	St. Mary's River, inspection & monumentation	5% Complete 2005 (*)
	Rainy River, inspection & monumentation	50% Complete (*)
	49 <sup>th</sup> Parallel (Minn.- Man.), vista clearing	50% complete 2006 (*)
	49 <sup>th</sup> Parallel (Foothills to W. Koot.), vista clearing	Completed in 2006
	49 <sup>th</sup> Parallel (Fraser & Columbia V.), vista clearing	No work completed (*)
2008	141 <sup>st</sup> Meridian, vista clearing	No work completed
	Passamaquoddy Bay, inspection & clearing	No work completed (*)
	Highlands (NE Section), vista clearing	Completed in 2006
	West Line (N.Y.-Que.), monumentation	20% Complete
	St. Lawrence River, inspection & monumentation	No work completed
	49 <sup>th</sup> Parallel, (Minn.-Man.), vista clearing	50% Complete 2006 (*)
	49 <sup>th</sup> Parallel, (W. Koot. To Similk.), vista clearing	Completed in 2008
	141 <sup>st</sup> Meridian, vista clearing	No work completed



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2009	<i>Southwest and South Line, vista clearing</i>	<i>Future Work</i>
	<b>Highlands (N.E. Section), vista clearing</b>	Completed in 2006 (*)
	<i>Niagara River, inspection &amp; monumentation</i>	<i>Future Work</i>
	<i>49th Parallel (Similk. to Columbia V.), vista clearing</i>	75% Complete 2008
	<i>141st Meridian, vista clearing &amp; GPS Surveying</i>	<i>Future Work</i>
2010	<i>St. Croix River, inspection &amp; monumentation</i>	<i>Future Work</i>
	<i>Southwest and South Line, vista clearing</i>	
	<i>Highlands (S.W. Section), vista clearing</i>	
	<i>West Line (Vt- Que), vista clearing &amp; monumentation</i>	
	<i>49th Parallel (Prairies), monumentation &amp; clearing</i>	
	<i>49 th Parallel (Similk. to Columbia V.), vista clearing</i>	
	<i>49th Parallel (Fraser &amp; Columbia V.), vista clearing</i>	
	<i>141st Meridian, vista clearing &amp; GPS Surveying</i>	
2011	<i>Passamaquoddy Bay, inspection &amp; clearing</i>	<i>Future Work</i>
	<i>North Line &amp; Monument Brook, vista clearing</i>	
	<i>St. Francis River, vista clearing</i>	
	<i>Southwest and South Line, vista clearing</i>	
	<i>Highlands (S.W. Section), vista clearing</i>	
	<i>West Line (Vt- Que), vista clearing &amp; monumentation</i>	
	<i>Detroit River, inspection &amp; monumentation</i>	
	<b>Lake Sup. To Rainy River, monumentation &amp; clearing</b>	50% Complete 2007 (*)
	<i>49th Parallel (Pemb.-Turtle Mts.), vista clearing</i>	<i>Future Work</i>
2012	<i>North Line vista &amp; Monument Brook, vista clearing</i>	<i>Future Work</i>
	<i>S.W. Branch of St. John River, insp. &amp; monumentation</i>	
	<i>Highlands (S.W. Section), vista clearing</i>	
	<i>Halls Stream, vista clearing</i>	
	<i>West Line (N.Y.- Que), vista clearing &amp; monumentation</i>	
	<i>Lake Sup. To Rainy River, inspection &amp; monumentation</i>	
	<i>49th Parallel (Pemb.- Turtle Mts.), vista clearing</i>	
	<i>Pt. Roberts Range Towers, inspection &amp; refurbish</i>	
2013	<i>S.W. Branch of St. John River, insp. &amp; monumentation</i>	<i>Future Work</i>
	<i>Highlands (N.E. Section), vista clearing</i>	
	<i>West Line (N.Y.- Que), vista clearing &amp; monumentation</i>	
	<i>49th Parallel (Minn.- Man.), vista clearing</i>	
	<i>49th Parallel (Fraser &amp; Columbia V.), vista clearing</i>	





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2014	<i>Passamaquoddy Bay, inspection &amp; clearing</i>	<i>Future Work</i>
	<i>Highlands (N.E. Section), vista clearing</i>	
	<i>West Line (N.Y.- Que), vista clearing &amp; monumentation</i>	
	<i>49th Parallel (Minn.- Man.), vista clearing</i>	
2015	<i>Southwest &amp; South Line, vista clearing</i>	<i>Future Work</i>
	<i>Highlands (N.E. Section), vista clearing</i>	
	<i>49th Parallel (Foothills to W. Koot.), vista clearing</i>	
	<i>S.E. Alaska, vista clearing</i>	
	<i>Pt. Roberts Range Towers, inspection &amp; refurbish</i>	
	<i>St. Clair River, inspection &amp; monumentation</i>	
2016	<i>Southwest and South Line, vista clearing</i>	<i>Future Work</i>
	<i>Highlands (S.W. Section), vista clearing</i>	
	<i>West Line (Vt- Que), vista clearing &amp; monumentation</i>	
	<i>St. Lawrence River, inspection &amp; monumentation</i>	
	<i>Rainy River, inspection &amp; monumentation</i>	
	<i>49th Parallel (Foothills to W. Koot.), vista clearing</i>	
	<i>49th Parallel (Fraser &amp; Columbia V.), vista clearing</i>	
	<i>S.E. Alaska, vista clearing</i>	
2017	<i>Passamaquoddy Bay, inspection &amp; clearing</i>	<i>Future Work</i>
	<i>North Line &amp; Monument Brook, vista clearing</i>	
	<i>St. John River, inspection &amp; monumentation</i>	
	<i>St. Francis River, vista clearing &amp; mapping</i>	
	<i>Southwest and South Line, vista clearing</i>	
	<i>Highlands (S.W. Section), vista clearing</i>	
	<i>West Line (Vt- Que), vista clearing &amp; monumentation</i>	
	<i>St. Mary's River, inspection &amp; monumentation</i>	
	<i>Rainy River, inspection &amp; monumentation</i>	
	<i>49th Parallel (Pemb.-Turtle Mts.), vista clearing</i>	
	<i>49th Parallel (Foothills to W. Koot.), vista clearing</i>	
	<i>S.E. Alaska, vista clearing</i>	
2018	<i>North Line &amp; Monument Brook, vista clearing</i>	<i>Future Work</i>
	<i>Highlands (S.W. Section), vista clearing</i>	
	<i>Halls Stream, vista clearing &amp; mapping</i>	
	<i>West Line (N.Y.- Que), vista clearing</i>	
	<i>49th Parallel (Pemb.- Turtle Mts.), vista clearing</i>	
	<i>49th Parallel (W. Koot. to Similk.), vista clearing</i>	
	<i>Pt. Roberts Range Towers, inspection &amp; refurbish</i>	



International  
Boundary  
Commission

Commission  
de la frontière  
internationale



2019	<i>Highlands (N.E. Section), vista clearing</i>	<i>Future Work</i>
	<i>West Line (N.Y.- Que), vista clearing</i>	
	<i>Niagara River, inspection &amp; monumentation</i>	
	<i>49th Parallel (Minn.- Man.), vista clearing</i>	
	<i>49th Parallel (W. Koot. to Similk.), vista clearing</i>	
	<i>49 th Parallel (Similk. to Columbia V.), vista clearing</i>	
	<i>49th Parallel (Fraser &amp; Columbia V.), vista clearing</i>	