





International Boundary Commission  
United States and Canada  
Joint Annual Report

2018



## Cover Photos

**Top:** A view of Chief Mountain in Montana, looking south from near the boundary (MT/AB)

**Bottom Left:** Bull moose in a canola field just east of the Portal/North Portal port of entry (SK)

**Bottom Center:** Tiger lillies on the bounadry (ND/MB)

**Bottom Right:** Whitetail buck in a soybean field just south of the boundary (ND)





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## EXECUTIVE SUMMARY

### *The Commission*

The International Boundary Commission (IBC) is a joint organization composed of two Commissioners duly appointed by the United States and Canada to maintain an effective boundary line between the two countries, as per the provisions of the Treaty of 1925. The IBC ensures the maintenance and integrity of a well-defined boundary, contributing to the mutual safety and prosperity of the citizens of both countries.

### *Structure*

The Commission is organized in two sections, each under the leadership of its respective Commissioner. Each side has its own staff, equipment, and budget. The maintenance work is shared equitably between the two sections, based on a periodically revised long-term plan.

### *What we do*

To fulfill its mandate, the IBC carries out routine inspections, repairs or replaces damaged boundary monuments, positions new monuments for improved boundary demarcation, maintains open vistas through woods and forests, and keeps boundary coordinates up to date by carrying out additional surveys when required.

### *Accomplishments*

Efforts were mainly focused in the following categories: vista clearing (North Line, St. Francis River, Southwest and South Lines, Highlands S.W., and Southeast Alaska), monument maintenance and/or inspection (St. John River, St. Francis River, Highlands N.E., West Line, and 49<sup>th</sup> Parallel), and surveys (Highlands S.W. and 49<sup>th</sup> Parallel).

### *Measuring Success*

The Commission is pleased to report that the work of maintaining the boundary is in line with its 15-year maintenance plan and the condition of the boundary meets the requirements from both countries.

### *The Commissioners*

The United States Commissioner is Kyle K. Hipsley, who has long served the U.S. section, most recently as Deputy Commissioner. Jean Gagnon is Surveyor General of Canada Lands and therefore, pursuant to the International Boundary Commission Act (Canada), is also Canada's International Boundary Commissioner.



Kyle K. Hipsley, Commissioner for the United States



Jean Gagnon, Commissioner for Canada

## INTRODUCTION

The boundary between Canada and the United States was defined and refined through a series of twenty-six treaties, conventions, protocols, decisions and awards beginning with the 1783 *Treaty of Peace* and culminating in the 1925 *International Boundary Treaty*. In 1794, the first Commissioners were appointed to resolve ambiguities regarding the exact location of the boundary. The tradition of appointing Commissioners to resolve specific issues was carried on until, in the Treaty of 1925, the positions were made permanent and the Commissioners tasked with the ongoing maintenance of the boundary.

### The Mandate of the Commissioners

The Treaty of 1925 set out the responsibilities of the Commissioners as:

1. 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;
2. Repair all damaged monuments and buoys;
3. Relocate and rebuild monuments which have been destroyed;
4. Keep the boundary vistas open;
5. Move boundary monuments to new sites and establish such additional monuments and buoys as they shall deem desirable;
6. Maintain at all times an effective boundary line between the Dominion of Canada and the United States;
7. Determine the location of any point of the boundary line which may become necessary in the settlement of any question that may arise between the two Governments.

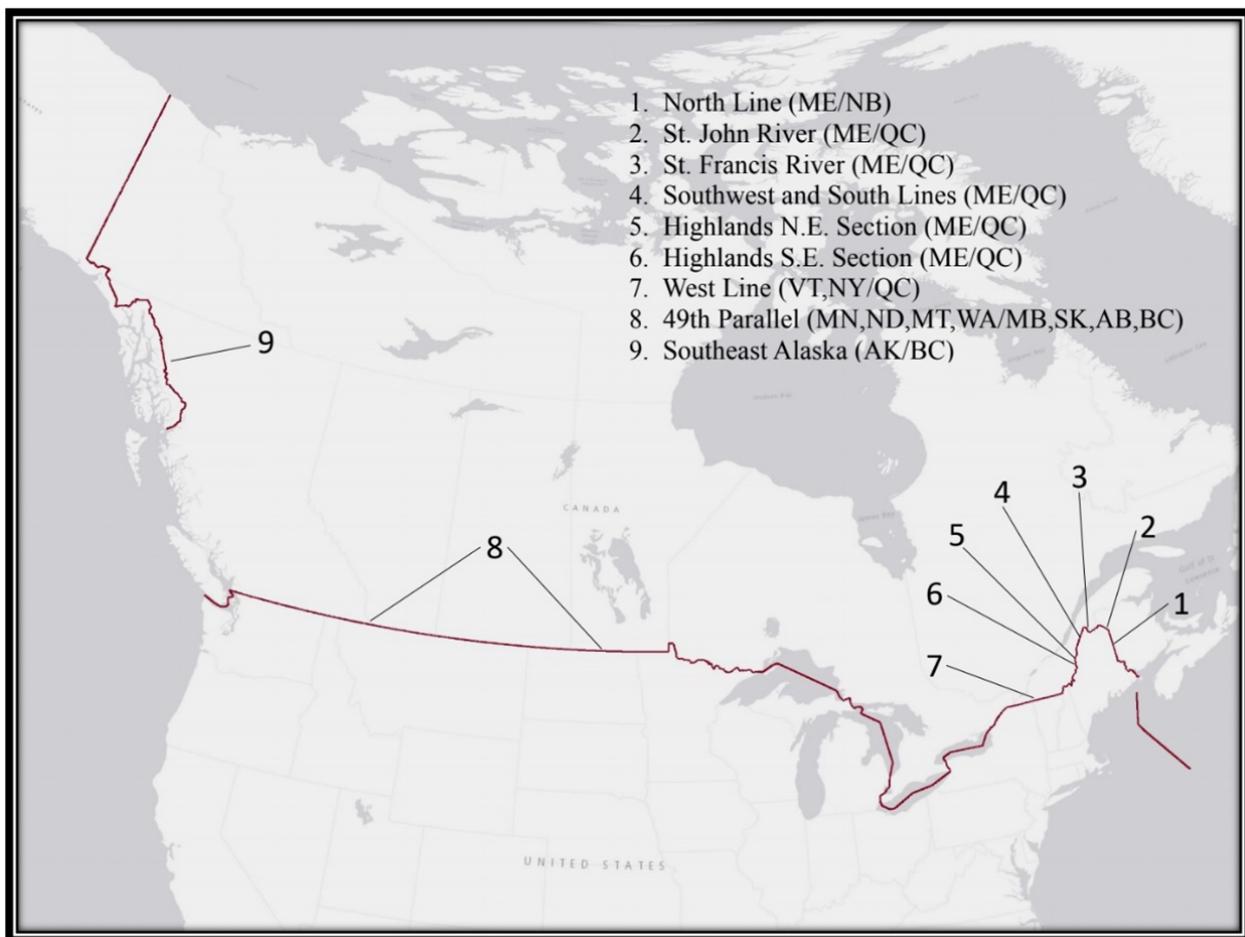
The Commissioners were further instructed to submit to their respective Governments from time to time, at least once in every calendar year, a joint report containing a statement of the inspections made; the monuments and buoys repaired, relocated, rebuilt, moved, and established; and the mileage and location of vistas opened. The report is to contain plats and tables certified and signed by the Commissioners, giving the locations and geodetic positions of all monuments moved and all additional monuments established within the year, and such other information as may be necessary to keep the boundary maps and records accurately revised.

This is the 94th Joint Annual Report from the Commissioners to their respective Governments on the state of the U.S./Canada boundary.

## MAINTENANCE ACTIVITIES

The 2018 field season began in May and ended in November. To ensure efficient and orderly management of boundary maintenance activities, the boundary is split into 8 sections and 29 subsections corresponding to areas with homogeneous characteristics. Projects are presented by subsections and activity from east to west, then north.

2018 Project Map



*Numbered sections represent sites of major maintenance activities*

## North Line (ME/NB) – Vista Clearing



*Figure 1- View of the vista after clearing operations (ME/NB)*

The North Line begins at the source of the St. Croix River and runs approximately 78 miles (125 kilometers) northward to its intersection with the St. John River, separating New Brunswick and Maine. Stretched across farms and forests, the rapidly growing vegetation of this boundary line necessitates frequent maintenance. The firm awarded this contract had completed the same project for the IBC in previous years. Overhanging branches, trees, and shrubs were cleared along a 35-mile (56.3 kilometer) section of the line to ensure an unobstructed 20-foot-wide vista.

## St. John River (ME/NB) – Reference Monument Maintenance

The boundary follows the St. John River for 72 miles (115 kilometers) starting at the North Line and running west to the mouth of the St. Francis River. This project was a continuation of last seasons' efforts to recover and repair the reference monuments along the river. Reference monuments are land-based markers used to identify the location of turning points along the boundary line when it winds along a watercourse.



*Figure 3- Crew mixing concrete in driveway for RMS-54 (ME/NB)*

The surrounding areas are developed with roads, towns, and farms. As a result, it was necessary to perform work in the yards of property owners with reference monuments on their land. The crew spent time communicating with them to determine their preferences pertaining to vehicle usage on their properties. The crew's goal was to have the only remaining sign of their presence be a renewed monument. With the cooperation of residents in place, and several weeks of monument recovery using handheld GPS units complete, the multi-step process of repairing monuments began. Trails were sometimes cut to gain access, and trees and brush removed to open an adequate line of sight. All told, 78 reference monuments were repaired and/or painted, marking a completion to this project after several years.



*Figure 2- RMS-54 after being graded and painted (ME/NB)*

## St. Francis River (ME/QC) – Vista Clearing and Reference Monument Maintenance

The St. Francis River functions as the boundary beginning from its source at Lake Pohenegamook and running southerly for 43 miles (70 kilometers) to the St. John River. Dense woods border the U.S. side of the river, while low-lying farmland lines the Canadian side. Last cut five years ago, this section was in need of clearing as substantial tree growth had occurred along the line, including larger trees such as fir, poplar, and spruce. Communication with property owners proved valuable in securing ease of river access. The field crew was first sent out to paint highly visible reference monuments in an effort to be a good neighbor and keep the area attractive. Heavy rains had washed away much of the paint on many of these monuments that had just received a new coating within the last few years. Clearing then began in Estcourt, ME/Pohenegamook, QC and continued until the end of the field season near Blue River, QC. The arduous cutting was done by hand with brush saws over a total of 4.2 miles (6.8 kilometers). Much time was also spent felling and bucking up the many larger trees on the line.



*Figure 4- Crew cutting brush along the line (ME/QC)*

## Southwest and South Lines (ME/QC) – Vista Clearing and Monument Inspection



*Figure 5- A view of the vista after clearing operations*

The Southwest and South Lines define the boundary between Maine and Quebec starting at Lake Pohenegamook and heading southwest in a straight line to Lac-Frontière, Quebec, then turning south to its intersection with the southwest branch of the St. John River. The heavily forested and sparsely populated Southwest Line can be difficult to access, requiring the use of tracked vehicles on unpaved logging roads. While more accessible, the large swampy areas on the South Line provide its own challenges. A contractor was chosen to clear the vista of underbrush, trees, and overhanging branches along the entire 83.6 miles (134.5 kilometers) of this section. Their

method of mechanical clearing proved to be efficient and produced a result of fully chipped vegetation. The contractor also inspected and photographed 199 of the 246 monuments encountered along the way.

## Highlands N.E. Section (ME/QC) – Monument Maintenance

This rugged section of the boundary is one of the most challenging to maintain. Inspections completed in the previous two field seasons revealed the need for significant monument maintenance. A new type of monument was used this season which is made of a round iron bar, ribbed like construction reinforcing steel, with an aluminum alloy cap forged to it. These monuments have the potential to last longer than the original century-old rock posts. Some of the bars could be driven into the ground to their full length of 30 inches (75 centimeters). Other monuments, where bedrock was either exposed or below the surface, were driven to varying depths, the minimum being 6 inches (15 centimeters). In total, 129 monuments were either renewed, reestablished, or repaired.



Figure 6 - Monument 334-2

## Highlands S.W. Section (ME/QC) – Survey, Inspection, and Vista Clearing



Figure 7- Survey operations from the summit of Mount Pisgah (ME/QC)

Resurveying of the Highlands is an ongoing effort being conducted to produce higher-accuracy coordinates than what was previously achieved. The aim of this project was to resurvey three of 95 traverses. The Highlands are divided into four surveying purposes. With traverses 56, 63, and 66 now complete, only one traverse remains to be resurveyed for the IBC to be able to publish a new set of coordinates for the Highlands. Inspection of the monuments in the resurveyed traverses was also completed.

Vista clearing work was due for this section as part of its six-year vegetation management cycle. The project was assigned to a contractor to remove trees and underbrush so that the line of sight would be unobstructed up to the horizon and for a width of 10 feet (3 meters) on each side of the boundary line. A total of 53.4 miles (85.9 kilometers) of the vista was cleared. As part of the project, the contractor inspected and photographed 567 boundary monuments along the way.



Figure 8 - Inspecting Mon 469.6 after clearing (ME/QC)

## West Line (VT/QC) – Monument Maintenance and Densification



Figure 9 - New Monument 558B near Canusa Road in Stanstead, QC

The West Line, between Vermont and Quebec, crosses the scenic mountain vistas and gently rolling hills of the Eastern Townships. It also dips into two of the most scenic lakes of the Northeast, Lake Memphremagog and Lake Champlain, where many early chapters of American and Canadian history were written.

Maintenance of this section continued to improve visibility of the boundary line by adding new monuments and refurbishing existing ones. In particular, two new boundary monuments were installed between the municipalities of Derby Line, VT and Stanstead, QC in order to meet the needs of citizens and law enforcement agencies. A total of 55 monuments were inspected, 39 of which were repaired.

## 49<sup>th</sup> Parallel (ND/MB) – Survey and monument maintenance

An IBC team conducted GPS surveys along multiple sections of the boundary at the 49<sup>th</sup> Parallel. The bulk of the work was done on the North Dakota/Manitoba boundary in an area that had previously not been accessible due to the recent oil boom. A large gap between Monuments 621 and 697 had existed, which was a critical piece necessary for completion of the comprehensive adjustments of the monuments along the 49<sup>th</sup> Parallel. Surveys were also conducted in other sections in need of new data, namely The Meridian and the 49<sup>th</sup> Parallel (MN/MB) to the east and the 49<sup>th</sup> Parallel (MT-ND/AB/SK/MB) to the west.



Figure 10 - GPS setup at Mon 584 during a control survey (ND/SK)

## 49<sup>th</sup> Parallel (MT-ND/AB-SK-MB) – Monument recovery and survey



Figure 11 - Survey setup (MT/AB)

Monument recovery and GPS surveys were conducted in this section in order to fill gaps left in previous surveys. The IBC field crew encountered several difficult issues while surveying, adding to their work load. The area they were to begin work in was in flood stage, causing them to relocate and revise their plan in order to give the lower lands time to drain. Once work was under way, a stakeholder informed them of a noxious weed problem in the area, requiring them to take on the added step of washing down all vehicles, trailers, and ATVs so as not to spread the weeds to other locations.

The crew pressed on, though an especially rainy season limited their days. Later in the season, the rain began tapering off and operations were going well until they encountered multiple problems with the Diesel Mule that required time to repair. Rough roads in this area are exceptionally harsh on the vehicle and trailer tires, resulting in a particularly high number of flat tires. Despite the unforeseen challenges, 119 monuments were able to be recovered.



Figure 12 - Blown tires on a new Winston trailer (MT)

## 49<sup>th</sup> Parallel (Foothills to West Kootenay River) – Monument maintenance and densification



Figure 13 - Newly established Mon 216D out of the line of traffic

These monuments are located at the Kingsgate/Eastport Port of Entry. Last year, the POE supervisor requested that Monument 216C be moved from its existing location in the line of traffic. Rather than changing the location of Mon 216C, its above ground structure was removed and a new Monument 216D was established in a better location. This season, the position of Mon 216C was maintained about two feet under this heavy traffic area. As only the base had been set for Mon 216D last season, a pebble roadside monument was installed on the base, completing the project.

## 49th Parallel (Pacific to Columbia Valley) – Monument maintenance and densification



Figure 14 - Monument 5B at Peace Arch Garden

This section of the 49<sup>th</sup> Parallel extends from the foothills of the Rocky Mountains westward until it reaches Boundary Bay. Because the boundary line intervenes between laborious American and Canadian communities that maintain close relationships, it deserves special attention.

The commission put forth some efforts to improve visibility of the boundary line in this section by refurbishing existing monuments and by adding additional markers at border crossings. A total of 73 monuments were inspected, of

which 71 were painted and 58 were surveyed.

## Southeast Alaska (AK/BC) – Vista Clearing

Continuing the vista clearing of several consecutive field seasons in this section, the IBC contracted clearing work for three zones totaling 14.9 miles/24 kilometers. This vista cutting project was located along a rugged, remote segment of the southeast Alaska/British Columbia boundary. The first zone (Katete River Valley) of the contract began at the vegetation line west of Boundary Peak 54 and headed west for 5.2 miles to Monument 58. The second zone (West Fork Katete River Valley) began at Monument 58 and headed west for 2.5 miles to Monument 61. The third zone (Stikine River Valley) began at the vegetation line north of Monument 62 and headed north for 7.2 miles to vegetation line south of Monument 66. The international boundary monuments along this section are a combination of 24-inch-high aluminum-bronze cones filled with concrete and set in 3-foot square concrete bases, and 8-inch aluminum-bronze posts set in drill holes. A majority of the project abuts the Tongass National Forest and Stikine-LeConte Wilderness Area in Alaska, and thus was extremely difficult to access and required helicopter support.



Figure 15 - View of the Southeast Alaska vista (AK/BC)

## COMMISSIONERS' ACTIVITIES

### Commissioners' Meetings

The Commissioners met twice in 2018 to review the status of projects, approve upcoming projects, review and approve comparable expenditures, and discuss various issues brought to their attention. The spring meeting was held May 1-2 in Washington, D.C. The fall meeting was held November 14-16 in Vancouver, British Columbia.

### Field Inspections

Inspections carried out by the Commissioners and their assistants ensure that the work performed in the field, under their direction, meets the Commission's standards and was done in accordance with the Treaty. Throughout the year, the Commissioners made the following inspections:

- In July, Commissioner Hipsley and Deputy Commissioner Moore along with Commissioner Gagnon visited areas along the West Line in the vicinity of Derby Line, VT/ Stanstead, QC to see line houses and potential locations for new monumentation. The inspection also covered portions of Halls Stream to see changes in the river flows and impacts of accretion in the southern end of the section. In the same trip, areas along the St Francis and the St. John River were inspected.
- During the month of August, Commissioner Hipsley visited the U.S. field party of Phil Hargrove while the crew was conducting GPS surveys along sections of the 49<sup>th</sup> parallel.
- On November 14, the Commissioners visited the Fraser Valley area and met with officials of Puget Sound Energy, WA. They also inspected the BC Hydro works and the Envirocorp recycling plant in Abbotsford, BC.



*Canadian Commissioner Jean Gagnon and U.S. Commissioner Kyle K. Hipsley at Monument 178, where the St. Francis River meets the Southwest and South Lines*

## **PUBLIC RELATIONS**

The Commission continues to work closely with provincial governments, local governments, and law enforcement agencies for both the United States and Canada to better manage vista clearing in high traffic areas and other places of concern along the border. This also aids in identifying locations that need additional marking to make the boundary more visible and effective for the general public. The IBC will occasionally be invited to share expertise in boundary related affairs to research and non-profit organizations.

This year, the International Boundaries Research University (IBRU) in Durham, UK again requested the IBC to participate in a workshop designed to help countries manage their shared borders. Daniel Fortin, from the Canadian Section, attended on behalf of the IBC to share our history and provide expertise from what is considered the “grandfather” of all boundary commissions.

Additionally, Deputy Commissioner Moore gave a presentation about the history and workings of the IBC to the Michigan Society of Professional Land Surveyors at their annual convention.

## REGULATORY ITEMS

The Commission monitors the construction of all works within 10 feet (3 meters) of the boundary. Thus, all construction - whether a ditch, building, surface, underground structure (telephone, cable, electrical line, or gas pipeline), line of communication, or other - must first be authorized by the Commission. In 2018, the Commissioners processed the following applications:

- Permission was granted to construct a new transmission line beginning near Woodstock, NB and continuing along Route 95 towards the Maine border to a new substation in New Brunswick. From this substation, a new power line will be permitted to cross the international boundary and tie into Houlton Water Company's (Houlton, ME) existing distribution lines.
- Permission was granted to install an underground oil pipeline across the international boundary and the St. Clair River between Turning Points 206 and 207. (MI/ON)
- Permission was granted to Manitoba Hydro to construct an alternating current transmission line crossing the international boundary between Monuments 891 and 892. (MN/MB)
- Permission was granted to undertake construction activities for road widening and paving at the Pembina POE. (ND/MB)
- Permission was granted to construct a new gas pipeline (South Saskatchewan Access Pipeline) near Portal, ND.

## PLANNING FOR 2019

The Commission plans to undertake the following activities in 2019:

### United States Section

The U.S. Section will be responsible for the following projects:

- 1) North Line (ME/NB) – Vista clearing for approximately 35 miles (56 kilometers) from Mon 1 to Mon 49 (south half of the North Line)
- 2) North Line (ME/NB) – Monument maintenance (north half of North Line)
- 3) St. Francis River (ME/NB) – Vista clearing and maintenance; survey checks
- 4) 49<sup>th</sup> Parallel (ND-MN/MB) – Vista clearing and survey (Turtle Mountains and Meridian)
- 5) 49<sup>th</sup> Parallel (MT-ND/AB-SK-MB) – Inspection, maintenance, and survey
- 6) Southeast Alaska (AK/BC) – Monument maintenance

### Canadian Section

The Canadian Section will undertake the following projects:

- 1) Halls Stream (NH/QC) – Reference monument densification and carbonite signs
- 2) Highlands N.E. (ME/QC) – Monument maintenance and survey
- 3) West Line (NY-VT/QC) – Clearing of Zone 3, monument maintenance, and range marks
- 4) St. Lawrence River (NY/ON) – Monument maintenance and reconnaissance
- 5) Lake Ontario and Niagara River (NY/ON) – Monument maintenance
- 6) 49<sup>th</sup> Parallel (Pacific to Columbia Valley) – Clearing from Mon 0 to Mon 43

## REPORT ON COMPARABLE EXPENDITURES

This report shows the total amount spent by both sections of the Commission as of March 31, 2018, for maintenance of the boundary line under Section IV of the *Treaty of Washington 1925*.

The cumulative total represents the total spending of each section, since 1925, on expenditures deemed comparable. Comparable expenditures are the subject of an agreement by both Commissioners as to the interpretation of Section IV of the *Treaty of 1925*, and are revised regularly. The current agreement has been in effect since April 1, 1999. Under the agreement, and according to the Treaty, the expenditures do not include salaries or expenditures by the Commissioner and the Commissioner's assistants, including administrative staff, i.e., the permanent staff of each section. Therefore, this expenditure report is not a financial report, as it does not include all of the expenditures incurred by each section.

The purpose of compiling cumulative expenditures since the Commission's origins is to demonstrate that the efforts of both governments are shared equally. Although the cumulative total shows a lag in terms of the expenditures of the U.S. Section, this gap is not a concern, as the U.S. Section's budget currently exceeds the Canadian budget. This is expected to continue, so that the U.S. Section should catch up and close the gap within three or four years.

Given that each country's fiscal year spans two calendar years, the divisible expenditure report does not always reflect all costs associated with current year projects and shows some costs associated with the previous year's projects.

Expenditures are shown in each country's respective currency.

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***Excerpt of Certified Comparable Expenditures to March 31, 2018***

	Expended By United States Section (USD)	Expended By Canadian Section (CAD)
<b>Total to March 31, 2017</b>	<b>24,728,445.33</b>	<b>\$ 25,694,895.16</b>

**From April 1, 2017 to March 31, 2018**

Highlands N.E. Section (QC/ME) - Inspection and Survey	145,935.29	\$
Highlands. S.W. Section (QC/ME) - Vista Clearing contract from Mon 405 to Mon 452 (69.9 km / 43.4 miles)	219,486.00	\$
Halls Stream (QC/NH) - Inspection	12,871.45	\$
West Line (QC/VT) - Inspection and Maintenance from Mon 518 to Mon 631	167,597.25	\$
141st Meridian (YT/AK) - Inspection and Survey from Mon 1A to Mon 80 (400 km / 248.5 miles)	255,408.00	\$
Saint John River (ME/NB) - Inspection and RM Maintenance from TP 130 to TP 232	149,646.84	\$
Passamaquoddy Bay (ME/NB) - Range Mark Maintenance Contract	36,641.00	\$
Rainy River and Lake of the Woods (MN/ON); Lake Superior to Rainy River (MN/ON) Inspection and Maintenance from TP 19 to TP 1390	139,564.32	\$
49th Parallel (AB-SK-MB/MT- ND) - Vista Clearing and Monument Maintenance - Mon 283 - Mon 321 (59.4 mi / 95.6 km in-house)	202,686.87	\$
49th Parallel (Columbia Valley to Similkameen River) - Mon 78	44,787.00	\$
49th Paralell (Foothills to West Kootenay River) - Establish Mon 216CC	18,574.00	\$
Southeast Alaska (AK/BC) - Vista Clearing Contract - carry over of IBC 01-16	207,477.07	\$

**Other Expenditures**

Point Roberts encroachment removal	8,696.00	\$
Vehicle Replacement	48,458.00	\$
Joint Annual Report printing	36,992.92	\$
	5,609.00	\$
<b>Sub-total for 2017-18</b>	<b>847,835.10</b>	<b>\$ 852,595.91</b>
<b>Total as of March 31, 2018</b>	<b>25,576,280.43</b>	<b>\$ 26,547,491.07</b>

## COMMISSIONERS OF THE IBC

### UNITED STATES

Otto H. Tittmann	1904 – 1915
Edward C. Barnard	1915 – 1921
E. Lester Jones	1921 – 1929
James H. Van Wagenen	1929 – 1935
Thomas Riggs	1935 – 1945
John A. Ulinski	1945 – 1953
Samuel L. Golan	1953 – 1961
Edward J. King	1961 – 1969
Richard L. Herman	1969 – 1977
William M. Schreiber	1977 – 1981
Frank R. Whetstone	1981 – 1985
David C. Fischer	1985 – 1991
Allen C. Kolstad	1991 – 1993
Clyde Moore (Acting)	1993 – 1996
Thomas L. Baldini	1996 – 2002
Dennis L. Schornack	2002 – 2007
David L. Bernhardt	2007 – 2008
Kyle K. Hipsley (Acting)	2008 – 2014
Kyle K. Hipsley	2014 –

### CANADA

William F. King	1904 – 1916
James J. McArthur	1917 – 1924
John D. Craig	1925 – 1931
Noel J. Ogilvie	1931 – 1947
James M. Wardle	1947 – 1950
J. Leslie Rannie	1950 – 1951
J. Earl R. Ross	1951 – 1957
A. Frederick Lambert	1957 – 1976
Alec C. McEwen	1976 – 1991
Suzanne Jacques	1991 – 1996
Michael O'Sullivan	1996 – 2005
Peter J. Sullivan	2005 – 2017
Jean Gagnon	2017 –



Commissioners Monument – United States



Commissioners Monument - Canadian updated in 2018

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## CERTIFICATION

We certify that the foregoing is a true record of the work done by the Commissioners during the year ending December 31, 2018 on the maintenance of the International Boundary Line between Canada and the United States of America, and that the plats and tables submitted herein show the true location and geodetic position of all monuments moved and all additional monuments and marks established within the year, in accordance with the provisions of Article IV of the Treaty between the United States of America and His Britannic Majesty in respect of Canada signed at Washington, February 24, 1925.

Jean Gagnon  
Commissioner for Canada

Kyle K. Hipsley  
Commissioner for the United States



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**APPENDIX A – DETAILS OF MAINTENANCE AND SURVEY WORK**

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***Legend***

<b>Boundary Monument Type:</b>	MON	Monument (Artificial feature set to mark the international boundary)
	LM	Line Mark (Artificial feature set between established boundary points)
	RG	Range Mark (Artificial feature set to define turning points by mean of alignment)
	RM	Reference Monument (Artificial feature set to define turning points by traverse)
<b>Reconnaissance:</b>	G	Recovered In Good Condition
	F	Recovered in Fair Condition (requires minor repair)
	P	Recovered in Poor Condition (requires major repair)
	D	Destroyed (evidence found but Monument not in place)
	NR	Not Recovered (no evidence found or inadequate search)
<b>Established:</b>	NM	New Monument constructed (in new location)
	R	Renewed (in same location)
<b>Repairs:</b>	MI	Minor repairs to base (cracks patched, plumbed, dirt packed at base, etc)
	MA	Major repairs (new marker installed, base partially replaced or recapped)
<b>Painted:</b>	MP	Monument Painted
<b>Description:</b>	DU	Description Updated
	ND	New Description (newly established monuments only)
<b>Photo:</b>	YES	Photographed
	NO	Not Photographed
<b>Monument Surveyed:</b>	S	Survey performed to position the monument

***Saint John River  
(Maine/New Brunswick)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S1	G			MP		YES	
RM C1	D					NO	
RM S1-55	F			MP		YES	
RM C2-52	D					NO	
RM C3	D					NO	
RM S3	P		MA	MP		YES	
RM S-4A	G			MP		YES	
RM S4	P		MA	MP		YES	
RM C4-72	F			MP		YES	
SITE RM C4	D					NO	
SITE RM C5	D					NO	
RM C5-72	G			MP		YES	
RM S6-57	G			MP		YES	
RM C6-52	D					NO	
RM S7-72	F			MP		YES	
RM C7-72	D					NO	
RM C7A-72	G			MP		YES	
RM C7-52	D					NO	
RM S8	P		MA	MP		YES	
RM C8-52	D					NO	
RM C8-72	G			MP		YES	
RM C9-72	D					NO	

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**Saint John River**  
**(Maine/New Brunswick)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM C9-52	D					NO	
RM S-10-52	G			MP		YES	
RM S11	P		MA	MP		YES	
RM C11	D					NO	
RM C12	D					NO	
RM C12A-72	G			MP		YES	
RM C13-72	F			MP		YES	
RM S16-40	P		MA	MP		YES	
RM C16-72	G			MP		YES	
RM C17-40	P		MA	MP		YES	
RM C18-52	D					NO	
RM S20	D					NO	
RM S21	P		MA	MP		YES	
RM C22-58	G			MP		YES	
RM C-23-52	D					NO	
RM C24-73	G			MP		YES	
RM C24	D			MP		YES	
RM S27	P		MA	MP		YES	
RM S28	D					NO	
RM S28-73	G			MP		YES	
RM S30-52	D					NO	
RM C28-52	G			MP		YES	
RM 121	D					NO	
RM 122	D					NO	
RM 123A-40	NR					NO	
RM S32B-73	G			MP		YES	
RM S32A-52	D					NO	
RM S32-73	G			MP		YES	
RM C30-31	D					NO	
RM S34A-73	G			MP		YES	
RM S34	D					NO	
RM S36-52	D					NO	
RM 124-73	D					NO	
RM C34	G			MP		YES	
RM S37-73	G			MP		YES	S
RM S37-52	G			MP		YES	
RM 126A-40	G			MP		YES	
RM S38A-73	D					NO	
RM S38-73	D					NO	
RM S38	G			MP		YES	
RM S39-51	G			MP		YES	
RM S39A-73	D					NO	
RM S40	P		MA	MP		YES	
RM 128	G			MP		YES	
RM S41-51	D					NO	

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**Saint John River**  
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Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S42-A	D					NO	
RM S42-73	G			MP		YES	
RM C40	F			MP		YES	
RM 130	G			MP		YES	
RM 130	G			MP		YES	
RM S43-51	D					NO	
RM S43	P		MA	MP		YES	
RM S44-73	G			MP		YES	
RM S44A-75	G			MP		YES	
RM 134-75	G			MP		YES	
RM 134	D					NO	
RM 134-73	G			MP		YES	
RM S45-75	G			MP		YES	
RM C43-75	G			MP		YES	
RM S45-51	D					NO	
RM C44	P		MA	MP		YES	
RM C45-75	G			MP		YES	
RM C46	D					NO	
RM C47	P		MA	MP		YES	
RM C49	P		MA	MP		YES	
RM S51-75	D					NO	
RM C50	P		MA	MP		YES	
RM C50-75	D					NO	
RM C51-75	G			MP		YES	
RM S-53A	D					NO	
RM C52	P		MA	MP		YES	
RM 134A-31	D					YES	
RM 134A-75	D					NO	
RM S54	P		MA	MP		YES	
RM S54A-75	G			MP		YES	
RM C53	P		MA	MP		YES	
RM S-55-51	D					NO	
RM C54A-75	G			MP		YES	
RM C54	P		MA	MP		YES	
RM 138A-75	G			MP		YES	
RM 136A-75	G			MP		YES	
RM 136	G			MP		YES	
RM S58-75	D					NO	
RM S61-51	D					NO	
RM S61-75	D					NO	
RM C62-75	G			MP		YES	
RM C62	P		MA	MP		YES	
RM S65-75	G			MP		YES	
RM C63-75	D					NO	
RM C65A-76	D					NO	

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**Saint John River**  
**(Maine/New Brunswick)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S68	D					NO	
RM C67	P		MA	MP		YES	
RM C67A-75	G			MP		YES	
RM C68A-75	F			MP		YES	
RM 143-76	G			MP		YES	
RM 143	G			MP		YES	
RM 144	G			MP		YES	
RM S73A-76	D					NO	
RM S73-75	D					NO	
RM S75	P		MA	MP		YES	
RM C73	P		MA	MP		YES	
RM S79	P		MA	MP		YES	
RM S84A-76	D					NO	
RM C79	P		MA	MP		YES	
RM C81A-76	G			MP		YES	
RM C90-76	D					NO	
RM C22	G			MP		YES	

**St. Francis River**  
**(Maine/New Brunswick, Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM C-111	G			MP		YES	
RM C113	G			MP		YES	
RM S-122	G			MP		YES	
RM S-123	G			MP		YES	
RM C114	G			MP		YES	
RM C115	G			MP		YES	
RM S-125	G			MP		YES	
RM C116	G			MP		YES	
RM S-126	G			MP		YES	
RM C-118	G			MP		YES	
RM S-127	G			MP		YES	
RM C119	G			MP		YES	
RM S-128	G			MP		YES	
RM C-120	G			MP		YES	
RM S129	G			MP		YES	
RM C-121	G			MP		YES	
RM C122	G			MP		YES	
RM C125	G			MP		YES	
RM C-128	G			MP		YES	
RM S-137	G			MP		YES	

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***St. Francis River***  
**(Maine/New Brunswick, Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
RM S-132	G			MP		YES	
LM 516A	G					NO	
LM 516B	G					NO	
LM 518A	G					NO	
TP 519	G					NO	
LM 519A	G					NO	
LM 520A	G					NO	
LM 520B	G					NO	
TP 522	G					NO	
TP 523	G					NO	
LM 524A	G					NO	
TP 525	G					NO	
LM 525A	G					NO	
LM 526A	G					NO	
LM 526B	G					NO	
LM 527A	G					NO	
TP 528	G					NO	
TP 529	G					NO	
LM 529A	G					NO	
TP 530	G					NO	
LM 530A	G					NO	
LM 530B	G					NO	
LM 530C	G					NO	
LM 531A	G					NO	
TP 532	G					NO	
LM 532A	G					NO	
LM 535A1	G					NO	
TP 536	G					NO	
TP 537	G					NO	
LM 537A	D					NO	
LM 538A	G					NO	
TP 539	G					NO	
LM 539A	D					NO	
TP 540	G					NO	
LM 540A	D					NO	
LM 541A	G					NO	
LM 541B	G					NO	
LM 542A	D					NO	
LM 542B	G					NO	
LM 543A	G					NO	
LM 543B	G					NO	
LM 568A	G					NO	
TP 569	G					NO	
LM 570A	D					NO	
LM 571A	G					NO	

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***St. Francis River***  
**(Maine/New Brunswick, Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
LM 571B	D					NO	
LM 571C	G					NO	
TP 572	G					NO	
LM 572A	G					NO	
LM 573A	G					NO	
LM 573B	D					NO	
LM 574A	G					NO	
LM 574B	G					NO	
LM 579A	G					NO	
LM 579B	G					NO	
LM 580A	G					NO	
TP 581	G					NO	
LM 583B	D					NO	
LM 583A	G					NO	
LM 584A	G					NO	
LM 584B	G					NO	
LM 588A	G					NO	
TP 589	G					NO	
LM 589A	G					NO	
LM 591A	G					NO	
TP 592	G					NO	
LM 594A	G					NO	
LM 603A	G					NO	
LM 603B	G					NO	
TP 606	G					NO	
LM 606A	G					NO	
LM 607B	G					NO	
LM 619A	G					NO	
TP 620	G					NO	
LM 620A	D					NO	
LM 620B	G					NO	
MON TP621	G					NO	
LM 621A	G					NO	
LM 623A	G					NO	
LM 623B	G					NO	
LM 627A	G					NO	
TP 628	G					NO	
LM 628A	G					NO	
LM 637B	G					NO	
LM 641A	G					NO	
MON TP642	G					NO	
LM 642A	G					NO	
LM 693A	G					NO	
TP 695	G					NO	
LM 695A	G					NO	

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***St. Francis River  
(Maine/New Brunswick, Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
LM 698A	G					NO	
LM 698B	G					NO	
LM 699A	G					NO	
LM 699B	G					NO	
LM 700A	G					NO	
LM 700B	G					NO	
LM 701A	G					NO	
LM 701B	G					NO	

***Southwest and South Lines  
(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 178	F					YES	
MON 179	G					YES	
MON 180	G					YES	
MON 180A	G					YES	
AP POHENEGAMOOK	G					YES	
MON 180B	G					YES	
MON 181A1	G					YES	
MON 181A1	G					YES	
MON 181A2	G					YES	
MON 181A3	G					NO	
MON 181A	G					YES	
MON 182	G					YES	
MON 182A	G					YES	
MON 182B	G					YES	
MON 183	G					YES	
MON 183A	G					YES	
MON 184	G					YES	
MON 184A	G					YES	
MON 184B	G					YES	
MON 185	G					YES	
MON 186	G					YES	
MON 186A	P					YES	
MON 186B	G					YES	
MON 187	G					YES	
MON 188	G					YES	
MON 200-88	G					YES	
MON 201	G					YES	
MON 201B	G					YES	
MON 202	G					YES	

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***Southwest and South Lines  
(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 202A1	G					YES	
MON 202B1	G					YES	
MON 202C1	G					YES	
MON 202A	G					YES	
MON 202B	G					YES	
MON 203	G					YES	
MON 203A	G					YES	
MON 204	G					YES	
MON 205	G					YES	
MON 206	G					YES	
MON 207	G					YES	
MON 207A	G					YES	
MON 207B	G					YES	
MON 208	G					YES	
MON 208A	D					YES	
MON 208B	G					YES	
MON 209	G					YES	
MON 210	G					YES	
MON 210A	G					YES	
MON 211	G					YES	
MON 211A	G					YES	
MON 211B	G					YES	
MON 212	G					YES	
MON 212A	G					YES	
MON 212B	G					YES	
MON 212C	F					YES	
MON 212D	G					YES	
MON 213	G					YES	
MON 214	G					YES	
MON 216 AND 217	F					YES	
MON 218	G					YES	
MON 218A	G					YES	
MON 218B	G					YES	
MON 218C	P					YES	
MON 218D	D					NO	
MON 219	G					YES	
MON 219A	G					YES	
MON 220	D					NO	
MON 220A	G					NO	
MON 221	G					YES	
MON 222	D					YES	
MON 222A	G					YES	
MON 223A	F					YES	
MON 224	D					YES	
MON 225-90	G					YES	

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***Southwest and South Lines  
(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 226	P					YES	
MON 227A	F					YES	
MON 227B	G					YES	
MON 228-90	G					YES	
MON 229	G					YES	
MON 230-51	F					YES	
MON 230A	F					YES	
MON 231	G					YES	
MON 232	G					YES	
MON 232A	G					YES	
MON 233	F					YES	
MON 234	P					YES	
MON 235	D					YES	
MON 236	F					YES	
MON 236A	G					YES	
MON 237	G					YES	
MON 237A	P					YES	
MON 237B	G					YES	
MON 238	G					YES	
MON 239	G					YES	
MON 239A	G					YES	
MON 239B	P					YES	
MON 239C	G					YES	
MON 240	G					YES	
MON 240A	G					YES	
MON 240B	D					YES	
MON 241-90	F					YES	
MON 241	G					YES	
MON 241A	P					YES	
MON 242	G					YES	
MON 242A	G					YES	
MON 242-77	G					YES	
MON 243	G					YES	
MON 243A1	D					YES	
MON 243A	G					YES	
MON 243B	F					YES	
MON 244	G					YES	
MON 245	P					YES	
MON 245A	F					YES	
MON 246	F					YES	
MON 247	P					YES	
MON 247A	P					NO	
MON 247B	G					YES	
MON 247C	G					YES	
MON 248	F					YES	

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***Southwest and South Lines  
(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 249-77	G					YES	
MON 250	F					YES	
MON 250A1	G					YES	
MON 250A2	G					YES	
MON 250A	F					YES	
MON 251	G					YES	
MON 251A	D					YES	
MON 252	P					YES	
MON 252A	G					YES	
MON 252B	P					YES	
MON 253	G					YES	
MON 253A	G					YES	
MON 254	G					YES	
MON 255	F					YES	
MON 256	G					YES	
MON 256A1	D					YES	
MON 256A	F					YES	
MON 256B	D					YES	
MON 257	G					YES	
MON 257A	G					YES	
MON 258	G					YES	
MON 258A	G					YES	
MON 258B	G					YES	
MON 259	F					YES	
MON 259A	G					YES	
MON 259B	F					YES	
MON 259C	G					YES	
MON 260	G					YES	
MON 261	P					YES	
MON 262	G					YES	
MON 263	F					YES	
MON 263A	G					YES	
MON 264	G					YES	
MON 265	F					YES	
MON 265A	G					YES	
MON 265B	D					YES	
MON 266	G					YES	
MON 267	G					YES	
MON 267A	P					NO	
MON 268	F					YES	
MON 268A	D					YES	
MON 268B	G					YES	
MON 269	F					YES	
MON 269A	G					YES	
MON 270	G					YES	

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***Southwest and South Lines***  
***(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 271	G					YES	
MON 271A	G					YES	
MON 272	G					YES	
MON 272A	G					YES	
MON 273	G					YES	
MON 274	F					YES	
MON 275	G					YES	
MON 276	G					YES	
MON 276A	G					YES	
MON 277	G					YES	
MON 278	G					YES	
MON 279	G					YES	
MON 280	G					YES	
MON 281	G			MP		YES	
MON 281A	G					YES	
MON 282	G					YES	
MON 282A	F					YES	
MON 283	G					YES	
MON 283A	G					YES	
MON 284	G					YES	
MON 285	G					YES	
MON 286	G					YES	
MON 287	G					YES	
MON 287A1	D					YES	
MON 287A	P					YES	
MON 287B	G					YES	
MON 288	P					YES	
MON 288A-91	G					YES	
MON 289	G					YES	
MON 290	G					YES	
MON 293	G					YES	
MON 293A	G					YES	
MON 294	G					YES	
MON 294A	G					YES	
MON 295	G					YES	

***Highlands N.E. Section***  
***(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 314	G					NO	
MON 314.1	G					NO	

***Highlands N.E. Section***  
***(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 314.2	G					NO	
MON 314.3	G					NO	
MON 314.4	G					NO	
MON 314.5	P					NO	
MON 314.6	G					NO	
MON 314.7	P	R				YES	
MON 314.8	F	R				YES	
MON 314.9	G					NO	
MON 314.10	G					NO	
MON 314.11	G					NO	
MON 315	G					NO	
MON 315.1	P	R				YES	
MON 315.2	P	R				YES	
MON 315.3	G					NO	
MON 315.4	G					NO	
MON 315.5	G					NO	
MON 315.6	G					NO	
MON 316.1	P	R				YES	
MON 316.2	G					NO	
MON 316.3	G					NO	
MON 316.4	P	R				YES	
MON 317	G					NO	
MON 317.1	G					NO	
MON 317.2	G					NO	
MON 317.3	G					NO	
MON 318	G					NO	
MON 318.1	G					NO	
MON 318.2	G					NO	
MON 318.3	G					NO	
MON 318.4	G					NO	
MON 318.5	G	R				YES	
MON 318.6	G					NO	
MON 318.7	P	R				YES	
MON 318.8	G					NO	
MON 318A	G					NO	
MON 318B	G					NO	
MON 318.9	G					NO	
MON 318.10	G					NO	
MON 318.11	G					NO	
MON 319	G					NO	
MON 319.1	G					NO	
MON 319.2	G					NO	
MON 319.3	G					NO	
MON 319.4	G					NO	
MON 319.5	P	R				YES	

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***Highlands N.E. Section***  
**(Maine/Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 319.6	G					NO	
MON 319.7	P	R				YES	
MON 319.8	G	R				YES	
MON 319.9	P	R				YES	
MON 319.10	G					NO	
MON 319.11	G					NO	
MON 319.12	G					NO	
MON 319.13	P	R				YES	
MON 319.14	P	R				YES	
MON 319.15	P	R				YES	
MON 319.16	G					NO	
MON 319.17	P	R				YES	
MON 319.18	P	R				YES	
MON 319.19	G					NO	
MON 319.20	P	R				YES	
MON 319.21	G	R				YES	
MON 319.22	P	R				YES	
MON 319.23	P	R				YES	
MON 319.24	G					NO	
MON 319.25	G					NO	
MON 319.26	P	R				YES	
MON 319.27	P	R				YES	
MON 319.28	F	R				YES	
MON 319.29	G	R				YES	
MON 319.30	P	R				YES	
MON 319.31	G					NO	
MON 319.32	F					NO	
MON 320	P					NO	
MON 320.1	F	R				YES	
MON 320.9	P	R				YES	
MON 320.12	G					NO	
MON 320.13	G					NO	
MON 320.14	D	R				YES	S
MON 320.15	NR	R				YES	S
MON 320.16	G					NO	
MON 320.17	P	R				YES	
MON 320.22	F	R				YES	
MON 320.23	P	R				YES	
MON 320.25	P	R				YES	
MON 320.27	P	R				YES	
MON 321.1	P	R				YES	
MON 321.2	P	R				YES	
MON 321.4	F	R				YES	
MON 321.5	F					NO	
MON 321.6	P	R				YES	S

***Highlands N.E. Section***  
***(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 321.7	F	R				YES	S
MON 321.8	P	R				YES	S
MON 321.9	F	R				YES	
MON 321.10	G					NO	
MON 321.11	D	R				YES	S
MON 321.12	F	R				YES	
MON 321.13	P	R				YES	S
MON 321.14	P	R				YES	S
MON 321.15	F	R				YES	
MON 321.16	G					NO	
MON 321.17	F	R				YES	S
MON 321.18	P	R				YES	S
MON 321.19	P	R				YES	S
MON 321.20	G					NO	
MON 321.21	G		MI			YES	
MON 321.23	G		MI			YES	
MON 322.3	G		MI			YES	
MON 322.6	F	R				YES	
MON 322.7	F	R				YES	
MON 322.8	P	R				YES	
MON 322.9	G	R				YES	
MON 322.11	P	R				YES	
MON 322.12	P	R				YES	
MON 322.14	P	R				YES	
MON 322.15	P	R				YES	
MON 322.16	P	R				YES	
MON 322.18	P	R				YES	
MON 322.19	P	R				YES	
MON 322.23	P	R				YES	
MON 322.25	P	R				YES	
MON 323	D					YES	
MON 323.2	G					NO	
MON 323.3	G					NO	
MON 323.4	G					NO	
MON 323.5	G					NO	
MON 323.6	G					NO	
MON 323.7	G					NO	
MON 323.8	P	R				YES	
MON 323.9	G					NO	
MON 323.10	G					YES	
MON 323.11	G					NO	
MON 323.12	P	R				YES	
MON 323.13	G					NO	
MON 323.14	G					NO	
MON 323.15	G					NO	

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***Highlands N.E. Section***  
***(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 323.16	G					NO	
MON 323.17	G					NO	
MON 323.18	G					NO	
MON 323.19	G					NO	
MON 324	P					NO	
MON 324.1	G					NO	
MON 324.2	G					NO	
MON 324.3	P	R				YES	
MON 324.4	F	R				YES	
MON 324.5	F	R				YES	
MON 324.7	P	R				YES	
MON 324.8	G					NO	
MON 324.9	P	R				YES	
MON 324.10	F		MI			YES	
MON 324.11	P	R				YES	
MON 324.12	D					NO	
MON 324.13	P	R				YES	
MON 324.14	G					NO	
MON 324.15	P	R				YES	
MON 324.16	P	R				YES	
MON 324.17	P	R				YES	
MON 324.18	F					NO	
MON 324.19	G					NO	
MON 324.20	F		MI			YES	
MON 324.21	P	R				YES	
MON 324.22	P	R				YES	
MON 324.23	G					NO	
MON 324.24	P	R				YES	
MON 324.25	D					NO	
MON 324.26	G					NO	
MON 324.27	G					NO	
MON 324.28	G					NO	
MON 324.29	G					NO	
MON 324.30	G					NO	
MON 324.31	G					NO	
MON 324.32	P	R				YES	
MON 325	G					NO	
MON 325.1	P	R				YES	
MON 325.2	G					NO	
MON 325.3	P	R				YES	
MON 325.4	P	R				YES	
MON 325.5	P	R				YES	
MON 325.6	G		MI			YES	
MON 325.7	D	R				YES	
MON 325.8	G					YES	

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***Highlands N.E. Section***  
**(Maine/Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 325.9	G					NO	
MON 325.10	G					NO	
MON 325.11	G					NO	
MON 325.12	G					NO	
MON 325.13	G					NO	
MON 325.14	G					NO	
MON 325.15	G					NO	
MON 325.16	G					NO	
MON 325.17	P	R				YES	
MON 325.18	G					NO	
MON 325.19	G					NO	
MON 325.20	D	R				YES	
MON 325.21	P	R				YES	
MON 325.22	G					NO	
MON 325.23	G					NO	
MON 325.24	G					NO	
MON 326	G					NO	
MON 326.1	F	R				YES	
MON 326.2	G					YES	
MON 326.3	P	R				YES	
MON 326.4	G					NO	
MON 326.5	G					NO	
MON 326.6	G					NO	
MON 326.7	G					NO	
MON 326.8	P	R				YES	
MON 330.21	F	R				YES	
MON 330.22	F	R				YES	
MON 349.1	G					NO	
MON 349.2	G					NO	
MON 349.3	D	R				YES	S
MON 349.4	G					NO	
MON 349.6	G					NO	
MON 349.8	G					NO	
MON 349.9	G					NO	
MON 349.10	P	R				YES	S
MON 349.11	G					NO	
MON 350	D	R				YES	
MON 350.1	G					NO	
MON 350.2	G					NO	
MON 350.3	P	R				YES	S
MON 350.4	G					NO	
MON 353.3	P	R				YES	S
MON 354.3	D	R				YES	S
MON 354.4	G		MI			NO	
MON 362.8	P	R				YES	

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***Highlands N.E. Section***  
***(Maine/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 363.4	P	R				YES	
MON 363.5	D	R				YES	S
MON 363.6	G					NO	
MON 363.7	G					NO	
MON 363.9	P	R				YES	
MON 363.10	F	R				YES	
MON 364.2	F		MA			YES	
MON 364.3	NR	R				YES	S
MON 364.4	G					NO	
MON 364.5	G					NO	
MON 365.1	F	R				YES	
MON 365.2	P	R				YES	
MON 365.3	P	R				YES	
MON 400.15	P	R				YES	
MON 400.16	P	R				YES	
MON 400.17	G					NO	
MON 400.18	P	R				YES	
MON 400.19	G					YES	
MON 400.20	P	R				YES	
MON 400.21	G					NO	
MON 401.1	P	R				YES	
MON 401.2	G					NO	
MON 401.3	P	R				YES	
MON 401.8	G					NO	
MON 401.9	D	R				YES	S
MON 401.10	D	R				YES	S
MON 401.11	G					NO	
MON 401.12	G					NO	

***Highlands S.W. Section***  
***(Maine, New Hampshire/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 405	G					YES	
MON 405.1	P					YES	
MON 405.2	G					YES	
MON 405.3	G					YES	
MON 405.4	G					YES	
MON 405.5	F					YES	
MON 405.6	P					YES	
MON 405.7	G					YES	
MON 405.8	F					YES	

*Highlands S.W. Section*  
*(Maine, New Hampshire/Quebec)*

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 405.9	P					YES	
MON 405.10	F					YES	
MON 405.11	P					YES	
MON 405.12	G					YES	
MON 405.13	G					YES	
MON 405.14	G					YES	
MON 405.15	G					YES	
MON 406	G					YES	
MON 406.1	F					YES	
MON 406.2	G					YES	
MON 406.3	P					YES	
MON 406.4	G					YES	
MON 406.5	F					YES	
MON 406.6	F					YES	
MON 406.7	G					YES	
MON 406.8	F					YES	
MON 406.9	G					YES	
MON 406.10	G					YES	
MON 406.11	G					YES	
MON 406.12	G					YES	
MON 406.13	G					YES	
MON 406.14	G					YES	
MON 407	D					YES	
MON 407.1	G					YES	
MON 407.2	G					YES	
MON 407.3	G					YES	
MON 407.4	P					YES	
MON 407.5	G					YES	
MON 407.6	G					YES	
MON 407.7	G					YES	
MON 407.8	G					YES	
MON 407.9	G					YES	
MON 408	F					YES	
MON 408.1	G					YES	
MON 408.2	G					YES	
MON 408.3	G					YES	
MON 408.4	G					YES	
MON 408.5	G					YES	
MON 408.6	G					YES	
MON 408.7	G					YES	
MON 408.8	G					YES	
MON 408.9	G					YES	
MON 408.10	P					YES	
MON 408.11	G					YES	
MON 409	G					YES	

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

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 409.1	D					YES	
MON 409.2	P					YES	
MON 409.3	G					YES	
MON 409.4	F					NO	
MON 409.5	G					YES	
MON 409.6	G					YES	
MON 409.7	G					YES	
MON 409.8	G					YES	
MON 409.9	G					YES	
MON 409.10	G					YES	
MON 409.11	P					YES	
MON 409.12	G					YES	
MON 409.13	F					YES	
MON 409.14	G					YES	
MON 409.15	G					YES	
MON 409.16	G					YES	
MON 409.17	F					YES	
MON 409.18	G					YES	
MON 409.19	F					YES	
MON 410	G					YES	
MON 410.1	G					YES	
MON 410.2	G					YES	
MON 410.3	G					YES	
MON 410.4	G					YES	
MON 410.5	F					YES	
MON 410.6	F					YES	
MON 410.7	F					YES	
MON 410.8	F					YES	
MON 410.9	F					YES	
MON 410.10	G					YES	
MON 410.11	F					YES	
MON 410.12	G					YES	
MON 410.13	G					YES	
MON 410.14	G					YES	
MON 410.15	P					YES	
MON 411	G					YES	
MON 411.1	G					YES	
MON 411.2	G					YES	
MON 411.3	P					YES	
MON 411.4	P					YES	
MON 411.5	G					YES	
MON 411.6	G					YES	
MON 411.7	G					YES	
MON 411.8	F					YES	
MON 411.9	G					YES	

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***Highlands S.W. Section***  
**(Maine, New Hampshire/Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 411.10	G					YES	
MON 411.11	G					YES	
MON 411.12	G					YES	
MON 411.13	F					YES	
MON 411.14	G					YES	
MON 411.15	G					YES	
MON 411.16	P					YES	
MON 412	G					YES	
MON 412.1	G					YES	
MON 412.2	G					YES	
MON 412.3	P					YES	
MON 412.4	G					YES	
MON 412.5	G					YES	
MON 412.6	F					YES	
MON 412.7	P					YES	
MON 412.8	G					YES	
MON 412.9	G					YES	
MON 412.10	G					YES	
MON 412.11	P					YES	
MON 412.12	G					YES	
MON 412.13	G					YES	
MON 412.14	G					YES	
MON 412.15	G					YES	
MON 412.16	G					YES	
MON 412.17	G					YES	
MON 412.18	G					YES	
MON 412.19	G					YES	
MON 412.20	G					YES	
MON 412.21	P					YES	
MON 412.22	G					YES	
MON 412.23	G					YES	
MON 412.24	G					YES	
MON 412.25	G					YES	
MON 412.26	G					YES	
MON 412.27	G					YES	
MON 412.28	G					YES	
MON 412.29	G					YES	
MON 412.30	G					YES	
MON 413	D					YES	
MON 413.1	G					YES	
MON 413.2	G					YES	
MON 413.3	P					YES	
MON 413.4	P					NO	
MON 413.5	F					YES	
MON 413.6	G					YES	

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

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 413.7	G					YES	
MON 413.8	G					YES	
MON 413.9	G					YES	
MON 413.10	G					YES	
MON 413.11	G					YES	
MON 413.12	G					YES	
MON 413.13	G					YES	
MON 413.14	G					YES	
MON 413.15	G					YES	
MON 415	G					YES	
MON 415.2	F					YES	
MON 415.3	G					YES	
MON 415.4	F					YES	
MON 415.5	G					YES	
MON 415.6	G					YES	
MON 415.7	G					YES	
MON 415.8	G					YES	
MON 415.9	G					YES	S
MON 416	G					YES	S
MON 416.1	G					YES	S
MON 416.2	G					YES	S
MON 416.3	G					YES	S
MON 416.4	G					YES	S
MON 416.5	G					YES	S
MON 416.6	G					YES	S
MON 416.7	G					YES	S
MON 416.8	F					YES	S
MON 416.9	G					YES	S
MON 416.10	G					YES	S
MON 416.11	G					YES	S
MON 416.12	G					YES	S
MON 416.13	G					YES	S
MON 417	G					YES	S
MON 417.1	G					YES	S
MON 417.2	G					YES	S
MON 417.3	G					YES	S
MON 417.4	G					YES	S
MON 417.5	G					YES	S
MON 417.6	G					YES	S
MON 417.7	G					YES	S
MON 417.8	G					YES	S
MON 417.9	G					YES	S
MON 417.10	G					YES	S
MON 418	G					YES	S
MON 418.1	G					YES	S

*Highlands S.W. Section*  
*(Maine, New Hampshire/Quebec)*

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 418.2	G					YES	S
MON 418.3	G					YES	S
MON 418.4	G					YES	S
MON 418.5	G					YES	S
MON 418.6	G					YES	S
MON 418.7	G					YES	S
MON 418.8	G					YES	S
MON 418.9	G					YES	S
MON 418.10	F					YES	S
MON 424.11	G					YES	
MON 425	G					YES	
MON 425.1	G					YES	
MON 425.2	F					YES	
MON 425.3	G					YES	
MON 425.4	G					YES	
MON 425.5	G					YES	
MON 425.6	P					YES	
MON 425.7	G					YES	
MON 425.8	D					YES	
MON 425.9	F					YES	
MON 425.10	G					YES	
MON 425.11	G					YES	
MON 425.12	G					YES	
MON 425.13	G					YES	
MON 425.14	G					YES	
MON 425.15	G					YES	
MON 425.16	G					YES	
MON 425.17	G					YES	
MON 425.18	G					YES	
MON 425.19	G					YES	
MON 427.7	G					YES	
MON 427.8	G					YES	
MON 427.9	G					YES	
MON 427.10	D					YES	
MON 427.11	P					YES	
MON 427.16	G					YES	
MON 428	P					YES	
MON 428.1	G					YES	
MON 428.3	G		MI			YES	
MON 428.4	G					YES	
MON 428.5	G					YES	
MON 428.6	G					YES	
MON 428.7	F					YES	
MON 428.8	G					YES	
MON 428.9	G					YES	

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Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 428.10	G					YES	
MON 428.11	G					YES	
MON 429	P					YES	
MON 429.1	G					YES	
MON 429.2	G					YES	
MON 429.3	G					YES	
MON 429.4	G					YES	
MON 429.5	G					YES	
MON 429A	F			MP		YES	
MON 429B	F			MP		YES	
MON 431.6	G					YES	S
MON 431.7	G					YES	S
MON 432	G					YES	S
MON 432.1	G					YES	S
MON 432.2	G					YES	S
MON 432.3	G					YES	S
MON 432.4	G					YES	S
MON 432.5	G					YES	S
MON 432.6	G					YES	S
MON 432.7	G					YES	S
MON 432.8	G					YES	S
MON 432.9	G					YES	S
MON 432.10	P		MA			YES	S
MON 432.11	G					YES	S
MON 432.12	G					YES	S
MON 432.13	G					YES	S
MON 432.14	G					YES	S
MON 433	G					YES	S
MON 433.1	G					YES	S
MON 433.2	G					YES	S
MON 433.3	G					YES	S
MON 433.4	P		MA			YES	S
MON 433.5	G					YES	S
MON 433.6	G					YES	S
MON 433.7	G					YES	S
MON 434	G					YES	S
MON 434.1	F					YES	S
MON 434.2	G					YES	S
MON 440.7	G					YES	S
MON 440.8	G					YES	S
MON 440.9	G					NO	S
MON 440.10	P					YES	S
MON 440.11	G					YES	S
MON 440.12	G					YES	S
MON 440.13	G					YES	S

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Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 440.14	G					YES	S
MON 440.15	G					YES	S
MON 441	G					YES	S
MON 441.1	G					YES	S
MON 441.2	G					YES	S
MON 441.3	G					YES	S
MON 441.4	G					YES	S
MON 441.5	F					YES	S
MON 441.6	G					YES	S
MON 441.7	G					YES	S
MON 441.8	P					YES	S
MON 441.9	G					YES	S
MON 441.10	G					YES	S
MON 441.11	G					YES	S
MON 442	G					YES	S
MON 442.1	G					YES	S
MON 442.2	G					YES	S
MON 442.3	G					YES	S
MON 442.4	G					YES	S
MON 442.5	G					YES	S
MON 442.6	G					YES	S
MON 442.7	G					YES	S
MON 442.8	G					YES	S
MON 442.9	G					YES	S
MON 442.10	G					YES	S
MON 442.11	G					YES	S
MON 442.12	G					YES	S
MON 442.13	G					YES	S
MON 442.14	G					YES	S
MON 442.15	G					YES	S
MON 442.16	F					YES	S
MON 443	G					YES	S
MON 443.1	G					YES	S
MON 443.2	G					YES	S
MON 443.3	G					YES	S
MON 443.4	G					YES	S
MON 443.5	F					YES	S
MON 443.6	G					YES	S
MON 443.7	G					YES	S
MON 443.8	G					YES	S
MON 443.9	G					YES	S
MON 443.9A	G					YES	S
MON 443.10	D	R				YES	S
MON 443.11	G					YES	S
MON 443.11A	G					YES	S

*Highlands S.W. Section*  
*(Maine, New Hampshire/Quebec)*

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 443.12	G		MI			YES	S
MON 443.13	D	R				YES	S
MON 443.14	G					YES	S
MON 443.15	P	R				YES	S
MON 444	D					YES	S
MON 444.1	G					YES	S
MON 444.2	G					YES	S
MON 444.3	G					YES	S
MON 444.4	G					YES	S
MON 444.5	G					YES	S
MON 444.6	G					YES	S
MON 444.7	G					YES	S
MON 444.8	G					YES	S
MON 444.9	G					YES	S
MON 444.10	G					YES	S
MON 444.11	G					YES	S
MON 444.12	G					YES	S
MON 444.13	G					YES	S
MON 444.14	G					YES	S
MON 444.15	G					YES	S
MON 444.16	G					YES	S
MON 445	D					YES	S
MON 445.1	G					YES	S
MON 445.2	F					YES	S
MON 445.3	G					YES	S
MON 445.4	G					YES	S
MON 445.5	G					YES	
MON 445.6	G					YES	
MON 446	G					YES	
MON 446.1	G					YES	
MON 450.8	D					YES	
MON 450.9	G					YES	
MON 450.10	P					YES	
MON 450.11	G					YES	
MON 450.12	G					YES	
MON 450.13	G					YES	
MON 450.14	G					YES	
MON 451	G					YES	
MON 451.1	F					YES	
MON 451.2	G					YES	
MON 451.3	G					YES	
MON 451.4	G					YES	
MON 451.5	F					YES	
MON 451.6	G					YES	
MON 451.7	G					YES	

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

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 451.8	G					YES	
MON 451.9	F					YES	
MON 451.10	D					YES	
MON 451.11	F					YES	
MON 451.12	G					YES	
MON 451.13	G					YES	
MON 451.14	F					YES	
MON 451.15	F					YES	
MON 451.16	F					YES	
MON 451.17	F					YES	
MON 451.18	G					YES	
MON 451.19	D					YES	
MON 451.20	G					YES	
MON 451.21	G					YES	
MON 452	G					YES	
MON 452.1	G					YES	
MON 452.2	G					YES	
MON 452.3	G					YES	
MON 452.4	G					YES	
MON 452.5	G					YES	
MON 452.6	G					YES	
MON 453	G					YES	
MON 453.1	G					YES	
MON 453.2	G					YES	
MON 453.3	G					YES	
MON 453.4	D					YES	
MON 453.5	G					YES	
MON 453.6	G					YES	
MON 454	D					YES	
MON 454.1	G					YES	
MON 454.2	G					YES	
MON 454.3	G					YES	
MON 454.4	G					YES	
MON 454.5	F					YES	
MON 454.6	G					YES	
MON 455	G					YES	
MON 455.1	F					YES	
MON 455.2	G					YES	
MON 455.3	G					YES	
MON 455.4	G					YES	
MON 455.5	F					YES	
MON 455.6	G					YES	
MON 455.7	G					YES	
MON 455.8	F					YES	
MON 455.9	G					YES	

*Highlands S.W. Section*  
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Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 455.10	G					YES	
MON 455.11	G					YES	
MON 455.12	P					YES	
MON 455.13	G					YES	
MON 456	D					YES	
MON 456.1	G					YES	
MON 456.2	G					YES	
MON 456.3	G					YES	
MON 456.4	G					YES	
MON 456.5	G					YES	
MON 456.6	G					YES	
MON 456.7	G					YES	
MON 456.8	G					YES	
MON 456.9	G					YES	
MON 456.10	G					YES	
MON 456.11	G					YES	
MON 456.12	G					YES	
MON 457	D					YES	
MON 457.1	P					YES	
MON 457.2	G					YES	
MON 457.3	G					YES	
MON 457.4	G					YES	
MON 457.5	G					NO	
MON 457.6	G					NO	
MON 457.7	G					YES	
MON 457.8	G					NO	
MON 457.9	F					NO	
MON 457.9A	G					NO	
MON 457.10	F					NO	
MON 457.11	F					YES	
MON 457.12	G					NO	
MON 457.13	F					NO	
MON 457.14	G					NO	
MON 458	G					YES	
MON 458.1	G					YES	
MON 458.2	G					YES	
MON 458.3	G					YES	S
MON 458.4	G					YES	
MON 458.5	G					YES	
MON 458.6	G					YES	
MON 458.7	G					YES	
MON 459	D					YES	
MON 459.1	G					YES	
MON 459.2	G					YES	
MON 459.3	G					YES	

*Highlands S.W. Section*  
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Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 459.4	G					YES	
MON 459.5	G					YES	
MON 459.6	G					YES	
MON 459.7	G					YES	
MON 459.8	G					YES	
MON 460	F					YES	
MON 460.1	G					YES	
MON 460.2	G					YES	
MON 460.3	F					YES	
MON 460.4	G					YES	
MON 460.5	G					YES	
MON 460.6	P					YES	
MON 460.7	G					YES	
MON 460.8	D					YES	
MON 460.9	F					YES	
MON 460.10	G					YES	
MON 460.11	G					YES	
MON 460.12	G					YES	
MON 460.13	G					YES	
MON 460.14	G					YES	
MON 460.15	G					YES	
MON 460.16	G					YES	
MON 460.17	G					YES	
MON 461	G					YES	
MON 461.1	G					YES	
MON 461.2	G					YES	
MON 461.3	G			MP		YES	
MON 461.4	G					YES	
MON 461.5	G					YES	
MON 461.6	G					YES	
MON 461.7	F					YES	
MON 461.8	G					YES	
MON 462.1	G					YES	
MON 462.2	G					YES	
MON 462.3	G					YES	
MON 462.4	G					YES	
MON 462.5	G					YES	
MON 462.6	G					YES	
MON 463	G					YES	
MON 463.1	F					YES	
MON 463.2	G					YES	
MON 463.3	G					YES	
MON 463.4	G					YES	
MON 463.5	G					YES	
MON 463.6	G					YES	

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***Highlands S.W. Section***  
**(Maine, New Hampshire/Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 463.7	G					YES	
MON 463.8	G					YES	
MON 463.9	F					YES	
MON 466.5	G					YES	
MON 466.6	G					YES	
MON 466.7	G					YES	
MON 466.8	P					YES	
MON 466.9	G					YES	
MON 466.10	F					YES	
MON 466.11	G					YES	
MON 466.12	F					YES	
MON 467	D					YES	
MON 467.1	G					YES	
MON 467.2	G					YES	
MON 467.3	G					YES	
MON 467.4	G					YES	
MON 467.5	G					YES	
MON 467.6	G					YES	
MON 467.7	F					YES	
MON 467.8	G					YES	
MON 467.9	G					YES	
MON 467.10	P					YES	
MON 467.11	G					YES	
MON 467.12	G					YES	
MON 467.13	G					YES	
MON 467.14	G					YES	
MON 467.15	G					YES	
MON 467.16	G					YES	
MON 467.16A	G					YES	
MON 467.17	G					YES	
MON 467.18	G					YES	
MON 467.19	F					YES	
MON 467.20	G					YES	
MON 468	G					YES	
MON 468.1	G					YES	
MON 468.2	G					YES	
MON 468.3	G					YES	
MON 468.4	G					YES	
MON 468.5	G					YES	
MON 468.6	G					YES	
MON 468.7	G					YES	
MON 468.8	F					YES	
MON 468.9	F					YES	
MON 468.10	G					YES	
MON 468.10A	G					YES	

*Highlands S.W. Section*  
*(Maine, New Hampshire/Quebec)*

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 468.11	NR					NO	
MON 468.12	G					YES	
MON 468.13	G					YES	
MON 468.14	G					YES	
MON 469	D					YES	
MON 469.1	F					YES	
MON 469.2	P					YES	
MON 469.3	G					YES	
MON 469.4	G					YES	
MON 469.5	G					YES	
MON 469.6	G					YES	
MON 469.7	G					YES	
MON 469.8	F					YES	
MON 469.9	G					YES	
MON 469.10	G					YES	
MON 469.11	G					YES	
MON 469.12	G					YES	
MON 469.13	G					YES	
MON 469.14	G					YES	
MON 469.15	G					YES	
MON 469.16	G					YES	
MON 469.17	F					YES	
MON 470	G					YES	
MON 470.1	G					YES	
MON 470.2	G					YES	
MON 470.3	G					YES	
MON 470.4	G					YES	
MON 470.5	G					YES	
MON 470.6	G					YES	
MON 470.7	G					YES	
MON 470.8	F					YES	
MON 470.9	G					YES	
MON 470.10	G					YES	
MON 470.11	G					YES	
MON 470.12	G					YES	
MON 470.13	G					YES	
MON 470.14	G					YES	
MON 470.15	G					YES	
MON 470.16	G					NO	
MON 470.17	G					YES	
MON 470.18	G					YES	
MON 470.19	G					YES	
MON 470.20	G					YES	
MON 470.21	G					YES	
MON 470.22	D					YES	

*Highlands S.W. Section*  
*(Maine, New Hampshire/Quebec)*

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 470.23	G					YES	
MON 470.23A	G					YES	
MON 470.24	G					YES	
MON 470.25	F					YES	
MON 470.26	G					YES	
MON 470.27	G					YES	
MON 470.28	G					YES	
MON 470.29	P					YES	
MON 471	P					YES	
MON 471.1	G					YES	
MON 471.2	G					YES	
MON 471.3	P					YES	
MON 471.4	F					YES	
MON 471.5	F					YES	
MON 471.6	G					YES	
MON 471.7	G					YES	
MON 471.8	G					YES	
MON 471.9	G					YES	
MON 471.10	G					YES	
MON 471.11	G					YES	
MON 471.12	F					YES	
MON 471.13	G					YES	
MON 471.14	G					YES	
MON 471.15	P					YES	
MON 471.16	G					YES	
MON 471.17	G					YES	
MON 471.18	F					YES	
MON 471.19	G					YES	
MON 471.20	G					YES	
MON 471.21	G					YES	
MON 472	G					YES	
MON 472.1	G					YES	
MON 472.2	G					YES	
MON 472.3	G					YES	
MON 472.4	G					YES	
MON 472.5	G					YES	
MON 472.6	G					YES	
MON 472.7	G					YES	
MON 472.8	G					YES	
MON 472.9	G					YES	
MON 472.10	G					YES	
MON 472.11	G					YES	
MON 472.12	G					YES	
MON 472.13	G					YES	
MON 472.14	G					YES	

*Highlands S.W. Section*  
*(Maine, New Hampshire/Quebec)*

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 472.15	G					YES	
MON 473	G					YES	
MON 473.1	G					YES	
MON 473.2	G					NO	
MON 473.3	P					YES	
MON 473.3A	G					YES	
MON 473.4	NR					YES	
MON 473.5	G					YES	
MON 473.6	G					YES	
MON 473.7	G					YES	
MON 473.8	P					YES	
MON 473.9	G					YES	
MON 473.10	G					YES	
MON 473.22	P					YES	
MON 473.23	G					YES	
MON 473.24	F					YES	
MON 473.25	F					YES	
MON 473.26	G					YES	
MON 474	G					YES	
MON 474.1	NR					NO	
MON 474.2	P					YES	
MON 474.3	NR					NO	
MON 484 (WEST POST)	G			MP		YES	
MON 484A	F			MP		YES	
MON 484.1	F					YES	
MON 484.2	P					YES	
MON 484.3	P					YES	
MON 484.4	G					YES	
MON 484.34	G					YES	
MON 484.35	G					YES	
MON 484.36	G					YES	
MON 484.37	P					YES	
MON 484.38	G					YES	
MON 484.39	G					YES	
MON 484.40	G					YES	
MON 484.41	G					YES	
MON 484.42	F					YES	
MON 484.43	G					YES	
MON 484.44	G					YES	
MON 500.7	D					YES	
MON 500.8	G					YES	
MON 500.9	NR					YES	
MON 500.10	G					YES	
MON 500.11	G					NO	
MON 500.12	G					YES	

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***Highlands S.W. Section***  
**(Maine, New Hampshire/Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 500.13	G					YES	
MON 500.14	G					YES	
MON 500.15	F					YES	
MON 500.16	G					YES	
MON 500.17	G					YES	
MON 500.18	G					YES	
MON 500.19	F					YES	
MON 501	F					YES	
MON 501.1	G					YES	
MON 501.2	F					YES	
MON 501.3	G					YES	
MON 501.4	G					YES	
MON 501.6	G					YES	
MON 501.7	G					YES	
MON 501.8	G					YES	
MON 501.9	G					YES	
MON 501.10	G					YES	
MON 501.11	NR					NO	
MON 502	F					YES	
MON 505	G					YES	
MON 505.1	G					YES	
MON 506	G					YES	
MON 506.1	P					YES	
MON 506.2	F					YES	
MON 506.3	G					YES	
MON 507	G					YES	

***West Line (QC/VT)***  
**(Vermont/Quebec)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 535F	G		MA	MP		NO	
MON 540	F		MI	MP		NO	
MON 542	P					NO	
MON 543	F					NO	
MON 544	G			MP		NO	S
MON 544B	G			MP		NO	S
MON 544A	G			MP		NO	S
MON 545	G			MP		NO	S
MON 550	G					NO	S
MON 551	G					NO	S
MON 551A-35	G					NO	S

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***West Line (QC/VT)***  
***(Vermont/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 551A4	G	NM			DU	NO	
MON 552A	G			MP		NO	
MON 553-00	F			MP		NO	
MON 553A	G			MP		NO	
MON 554W	G					NO	
MON 554A	F					NO	
MON 555A	G					NO	
MON 555B	G					NO	
MON 558	G					NO	S
MON 558A	G					NO	S
MON 558B	G	NM			DU	NO	S
MON 560	G					NO	S
MON 560A	G					NO	S
MON 561	D					NO	
MON 562	G					NO	
MON 570	G			MP		NO	S
MON 571	G			MP		NO	S
MON 572	P			MP		NO	S
MON 572A	P		MA	MP		NO	S
MON 573-99	G			MP		NO	S
MON 573A	G			MP		NO	S
MON 573B	P		MA			NO	S
MON 574	P		MA			NO	
MON 576	P					NO	
MON 577	G					NO	
MON 578	G					NO	
MON 579	P					NO	
MON 580	P			MP		NO	
MON 581	P		MA	MP		NO	
MON 581A	G					NO	
MON 581B	G					NO	
MON 583	P		MI	MP		NO	
MON 588	G			MP		NO	
MON 594A	P		MI	MP		NO	
MON 594B	G			MP		NO	
MON 594C	G			MP		NO	
MON 594D	G			MP		NO	
MON 595	G			MP		NO	
MON 596	G			MP		NO	
MON 596A	G			MP		NO	
MON 597	P		MI	MP		NO	
MON 597A	G			MP		NO	
MON 597B	G			MP		NO	
MON 598	G			MP		NO	

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***West Line (QC/NY)  
(New York/Quebec)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 645A	G			MP		NO	
MON 646	G			MP		NO	
MON 646A	G			MP		NO	
MON 646B	G			MP		NO	
MON 646C	G			MP		NO	
MON 647	G			MP		NO	
MON 648	G			MP		NO	
MON 649A	G			MP		NO	
MON 649B	G			MP		NO	
MON 650	G			MP		NO	
MON 653	G			MP		NO	
MON 653A	G			MP		NO	
MON 653B	G			MP		NO	
MON 654	G			MP		NO	
MON 654A	G			MP		NO	

***Meridian and 49th Parallel (MB/MN)  
(Minnesota/Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 833	G			MP		YES	S

***49th Parallel (MB/ND)  
(North Dakota/Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 671	G			MP		YES	S
MON 671A	G			MP		YES	S
MON 672A-90	G			MP		YES	S
MON 672B-90	G			MP		YES	S
MON 672C	G			MP		YES	S
MON 673	G			MP		YES	S
MON 673A	G			MP		YES	S
MON 674	G			MP		YES	S
MON 674A	G			MP		YES	S
MON 675	G			MP		YES	S
MON 675A	G			MP		YES	S
MON 676	G			MP		YES	S

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***49th Parallel (MB/ND)  
(North Dakota/Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 676A	G			MP		YES	S
MON 677	G			MP		YES	S
MON 678	G			MP		YES	S
MON 679	G			MP		YES	S
MON 679A	G			MP		YES	S
MON 680	G			MP		YES	S
MON 680AA	G			MP		YES	S
MON 680A	G			MP		YES	S
MON 680B	G			MP		YES	S
MON 680C	G			MP		YES	S
MON 681	G			MP		YES	S
MON 681A	G			MP		YES	S
MON 681B	G			MP		YES	S
MON 682	G			MP		YES	S
MON 683	G			MP		YES	S
MON 684	G			MP		YES	S
MON 685	G			MP		YES	S
MON 686	G			MP		YES	S
MON 687	G			MP		YES	S
MON 688	G			MP		YES	S
MON 689	G			MP		YES	S
MON 690	G			MP		YES	S
MON 691	G			MP		YES	S
MON 691A	G			MP		YES	S
MON 692	G			MP		YES	S
MON 693	G			MP		YES	S
MON 694	G			MP		YES	S
MON 694A	G			MP		YES	S
MON 694B	G			MP		YES	S
MON 695	G			MP		YES	S
MON 695A	G			MP		YES	S
MON 695B	G			MP		YES	S
MON 695C	G			MP		YES	S
MON 695D	G			MP		YES	S
MON 696	G			MP		YES	S
MON 697	G			MP		YES	S
MON 727	G			MP		YES	S
MON 728	G			MP		YES	S
MON 729	G			MP		YES	S
MON 741	G			MP		YES	S
MON 751	G			MP		YES	S
MON 751A	G			MP		YES	S
MON 751B	G			MP		YES	S
MON 752	G			MP		YES	S
MON 753	G			MP		YES	S

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***49th Parallel (MB/ND)  
(North Dakota/Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 753AA	G			MP		YES	S
MON 753A	G			MP		YES	S
MON 754	G			MP		YES	S
MON 757	G			MP		YES	S
MON 757A-13	G			MP		YES	S
MON 757B	G			MP		YES	S
MON 758	G			MP		YES	S
MON 762	G			MP		YES	S
MON 773	G			MP		YES	S
MON 784	G			MP		YES	S
MON 795A	G			MP		YES	S
MON 796	G			MP		YES	S
MON 832A-91	G			MP		YES	S

***49th Parallel (AB-SK-MB/MT- ND)  
(Montana, North Dakota/Alberta, British Columbia, Saskatchewan, Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 290	G			MP		YES	S
MON 290A	G			MP		YES	S
MON 290B	G			MP		YES	S
MON 304	G			MP		YES	S
MON 305	G			MP		YES	S
MON 306	G			MP		YES	S
MON 307	G			MP		YES	S
MON 308	G			MP		YES	S
MON 308A	G			MP		YES	S
MON 308B	G			MP		YES	S
MON 309	G			MP		YES	S
LM 309A	G			MP		YES	S
LM 309B	G			MP		YES	S
MON 310	G			MP		YES	S
MON 311	G			MP		YES	S
MON 312	G			MP		YES	S
MON 313	G			MP		YES	S
MON 314	G			MP		YES	S
MON 315	G			MP		YES	S
MON 316	G			MP		YES	S
MON 317	G			MP		YES	S
MON 318	G			MP		YES	S
MON 318A	P		MA	MP		YES	S
MON 319	G			MP		YES	S

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**49th Parallel (AB-SK-MB/MT- ND)**

**(Montana, North Dakota/Alberta, British Columbia, Saskatchewan, Manitoba)**

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 320	G			MP		YES	S
MON 321	G			MP		YES	S
MON 322	G			MP		YES	S
MON 323	G			MP		YES	S
MON 323A	G			MP		YES	S
MON 324	G			MP		YES	S
MON 325	G			MP		YES	S
MON 326	G			MP		YES	S
MON 326A	G			MP		YES	S
MON 327	G			MP		YES	S
MON 328	G			MP		YES	S
MON 329	G			MP		YES	S
MON 330	G			MP		YES	S
MON 330A	G			MP		YES	S
MON 331	G			MP		YES	S
MON 332	G			MP		YES	S
MON 333	G			MP		YES	S
MON 333AAA	G			MP		YES	S
MON 333AA	G			MP		YES	S
MON 333A	G			MP		YES	S
MON 334	G			MP		YES	S
MON 335	G			MP		YES	S
MON 336	G			MP		YES	S
MON 336A	G			MP		YES	S
MON 337	G			MP		YES	S
MON 341	G			MP		YES	S
MON 356	G			MP		YES	S
MON 356AA	G			MP		YES	S
MON 356A	G			MP		YES	S
MON 356B	G			MP		YES	S
MON 356C	G			MP		YES	S
MON 357	G			MP		YES	S
MON 358	G			MP		YES	S
MON 358A	G			MP		YES	S
MON 359	G			MP		YES	S
MON 359A	G			MP		YES	S
MON 359B	G			MP		YES	S
MON 360	G			MP		YES	S
MON 361	G			MP		YES	S
MON 362	G			MP		YES	S
MON 363	G			MP		YES	S
MON 363A	G			MP		YES	S
MON 364	G			MP		YES	S
MON 365	G			MP		YES	S
MON 366	G			MP		YES	S

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***49th Parallel (AB-SK-MB/MT- ND)***

***(Montana, North Dakota/Alberta, British Columbia, Saskatchewan, Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 366A	G			MP		YES	S
MON 367	G			MP		YES	S
MON 367A	G			MP		YES	S
MON 368	G			MP		YES	S
MON 368A	G			MP		YES	S
MON 369	G			MP		YES	S
MON 370	G			MP		YES	S
MON 370A	G			MP		YES	S
MON 371	G			MP		YES	S
MON 371A	G			MP		YES	S
MON 372	G			MP		YES	S
MON 373	G			MP		YES	S
MON 373A	G			MP		YES	S
MON 374	G			MP		YES	S
MON 374A	G			MP		YES	S
MON 375	G			MP		YES	S
MON 379	G			MP		YES	S
MON 380	G			MP		YES	S
MON 381	G			MP		YES	S
MON 382	G			MP		YES	S
MON 382A	G			MP		YES	S
MON 383	G			MP		YES	S
MON 384	G			MP		YES	S
MON 385	G			MP		YES	S
MON 386	G			MP		YES	S
MON 387	G			MP		YES	S
MON 387A	G			MP		YES	S
MON 388	G			MP		YES	S
MON 388A	G			MP		YES	S
MON 388B	G			MP		YES	S
MON 389	G			MP		YES	S
MON 391	G			MP		YES	S
MON 391A	G			MP		YES	S
MON 392	G			MP		YES	S
MON 524	G			MP		YES	S
MON 544	G			MP		YES	S
MON 544	G			MP		YES	S
MON 554	G			MP		YES	S
MON 564A	G			MP		YES	
MON 564B	G			MP		YES	
MON 565	G			MP		YES	S
MON 584	G			MP		YES	S
MON 591	G			MP		YES	S
MON 601	G			MP		YES	S
MON 611	G			MP		YES	S

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***49th Parallel (AB-SK-MB/MT- ND)***

***(Montana, North Dakota/Alberta, British Columbia, Saskatchewan, Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 612	G			MP		YES	S
MON 615	G			MP		YES	S
MON 615A-66	G			MP		YES	S
MON 620	G			MP		YES	S
MON 621	G			MP		YES	S
MON 622	G			MP		YES	S
MON 622A	G			MP		YES	S
MON 623	G			MP		YES	S
MON 624	G			MP		YES	S
MON 624A	G			MP		YES	S
MON 625	G			MP		YES	S
MON 626	G			MP		YES	S
MON 626A	G			MP		YES	S
MON 627	G			MP		YES	S
MON 628	G			MP		YES	S
MON 628A	G			MP		YES	S
MON 629	G			MP		YES	S
MON 629AA	G			MP		YES	S
MON 629A-99	G			MP		YES	S
MON 629B-99	G			MP		YES	S
MON 630	G			MP		YES	S
MON 631	G			MP		YES	S
MON 631A	G			MP		YES	S
MON 632	G			MP		YES	S
MON 633	G			MP		YES	S
MON 634	G			MP		YES	S
MON 635	G			MP		YES	S
MON 636	G			MP		YES	S
MON 637	G			MP		YES	S
MON 638	G			MP		YES	S
MON 638A-66	G			MP		YES	S
MON 638B-66	G			MP		YES	S
MON 639	G			MP		YES	S
MON 639A	G			MP		YES	S
MON 639B	G			MP		YES	S
MON 640	G			MP		YES	S
MON 641	G			MP		YES	S
MON 641A	G			MP		YES	S
MON 642	G			MP		YES	S
MON 642A	G			MP		YES	S
MON 643	G			MP		YES	S
MON 644	G			MP		YES	S
MON 644A	G			MP		YES	S
MON 645	G			MP		YES	S
MON 646	G			MP		YES	S

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***49th Parallel (AB-SK-MB/MT- ND)***

***(Montana, North Dakota/Alberta, British Columbia, Saskatchewan, Manitoba)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 646A	G			MP		YES	S
MON 647	G			MP		YES	S
MON 647A	G			MP		YES	S
MON 648	G			MP		YES	S
MON 649	G			MP		YES	S
MON 649A	G			MP		YES	S
MON 649B	G			MP		YES	S
MON 649C	G			MP		YES	S
MON 650	G			MP		YES	S
MON 650A	G			MP		YES	S
MON 651	G			MP		YES	S
MON 651A	G			MP		YES	S
MON 652	G			MP		YES	S
MON 653	G			MP		YES	S
MON 654	G			MP		YES	S
MON 655	G			MP		YES	S
MON 656	G			MP		YES	S
MON 657	G			MP		YES	S
MON 658	G			MP		YES	S
MON 659	G			MP		YES	S
MON 660	G			MP		YES	S
MON 660A-66	G			MP		YES	S
MON 660B-66	G			MP		YES	S
MON 661	G			MP		YES	S
MON 662	G			MP		YES	S
MON 663	G			MP		YES	S
MON 664	G			MP		YES	S
MON 665	G			MP		YES	S
MON 665A	G			MP		YES	S
MON 666	G			MP		YES	S
MON 666A	G			MP		YES	S
MON 667	G			MP		YES	S
MON 667A	G			MP		YES	S
MON 668	G			MP		YES	S
MON 668A	G			MP		YES	S
MON 669	G			MP		YES	S
MON 669A	G			MP		YES	S
MON 669B	G			MP		YES	S
MON 670	G			MP		YES	S
MON 670A	G			MP		YES	S
MON 670B	G			MP		YES	S

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***49th Parallel (Foothills to West Kootenay River)  
(Idaho, Montana/British Columbia, Alberta)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 208	G			MP		YES	S
MON 216	G			MP		YES	S
MON 216A-90	G			MP		YES	S
MON 216C	G			MP	DU	YES	S
MON 216D	U	NM		MP	DU	YES	S
MON 217	G			MP		YES	S
MON 218	G			MP		YES	S
MON 281A	G			MP		YES	S
MON 281B-66	G			MP		YES	S
MON 282	G			MP		YES	S
MON 283	G			MP		YES	S
MON 284	G			MP		YES	S
MON 285	G			MP		YES	S
MON 286	G			MP		YES	S
MON 287	G			MP		YES	S
MON 288	G			MP		YES	S
MON 289	G			MP		YES	S

***49th Parallel (Columbia Valley to Similkameen River)  
(Washington/British Columbia)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 43	G			MP		YES	S

***49th Parallel (Pacific to Columbia Valley)  
(Washington/British Columbia)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 1	F					YES	S
MON 1A	G			MP		NO	
MON 1B	G			MP		NO	
MON 2	G			MP		YES	S
MON 2A-00	G			MP		YES	S
MON 2B	G			MP		YES	
MON 3	G			MP		YES	
MON 3A	G			MP		YES	
MON 3B	G			MP		YES	
MON 4	G			MP		YES	
RM C	G			MP		YES	

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***49th Parallel (Pacific to Columbia Valley)  
(Washington/British Columbia)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 5	G			MP		YES	
MON 5A	G			MP		YES	
MON 5B	G			MP		YES	
MON 5B1	G			MP		YES	
MON 5C-77	G			MP		YES	
MON 5D	G			MP		YES	
MON 5G	G	NM		MP	DU	YES	S
MON 5D1	G			MP		YES	
MON 5E-2009	G			MP		YES	
MON 5E-92	NR					NO	
MON 6	G			MP		YES	S
MON 7	G			MP		YES	S
MON 7A	G			MP		YES	S
MON 8	G			MP		YES	S
MON 8A	G			MP		YES	S
MON 9	G			MP		YES	S
MON 9A	G			MP		YES	S
MON 10	G			MP		YES	S
MON 11	G			MP		YES	S
MON 12	G			MP		YES	S
MON 12A	G			MP		YES	S
MON 13	G			MP		YES	S
MON 13A	G			MP		YES	S
MON 14	G			MP		YES	S
MON 15	G			MP		YES	S
MON 15A	G			MP		YES	S
MON 16	G			MP		YES	S
MON 17	G			MP		YES	S
MON 18	G			MP		YES	S
MON 18A	G			MP		YES	S
MON 19	G			MP		YES	S
MON 19AA	G			MP		YES	S
MON 19A	G			MP		YES	S
MON 19B	D					YES	S
MON 19C	G	NM		MP		NO	S
MON 20	G			MP		YES	S
MON 20A	G			MP		YES	S
MON 20B	G			MP		YES	S
MON 21	G			MP		YES	S
MON 22	G			MP		YES	S
MON 22A	G			MP		YES	S
MON 23	G			MP		YES	S
MON 23A	G			MP		YES	S
MON 24	G			MP		YES	S
MON 24A	G			MP		YES	S

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***49th Parallel (Pacific to Columbia Valley)  
(Washington/British Columbia)***

Boundary Monument Type & Number	Reconnaissance	Established	Repairs	Painted	Description	Photo	Monument Surveyed
MON 25	G			MP		YES	S
MON 25A	G			MP		YES	S
MON 25B	G			MP		YES	S
MON 26	G			MP		YES	S
MON 27	G			MP		YES	S
MON 28	G			MP		YES	S
MON 28A	G			MP		YES	S
MON 29	G			MP		YES	S
MON 29A	G			MP		YES	S
MON 30	G			MP		YES	S
MON 30AAA	G			MP		YES	S
MON 30AA	G			MP		YES	S
MON 30A	G			MP		YES	S
MON 31AA	G			MP		YES	S
MON 31A	G			MP		YES	S
MON 31B	G			MP		YES	S
MON 31C	G			MP		YES	S
MON 32	G			MP		YES	S
MON 32A	G			MP		YES	S
MON 38	NR					NO	
MON 39	NR					NO	
MON 40	NR					NO	
MON 41	NR					NO	
MON 42	NR					NO	

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**APPENDIX B – SUMMARY OF MAINTENANCE AND SURVEY WORK**

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**MONUMENT MAINTENANCE**

**Saint John River  
(Maine/New Brunswick)**

Reference Monuments recovered	126
Reference Monuments not recovered	1
Reference Monuments repaired or re-established	24
Reference Monuments painted	78
Reference Monuments photographed	79
Reference Monuments surveyed	1

**St. Francis River  
(Maine/New Brunswick, Quebec)**

Monuments recovered	2
Line Marks recovered	74
Reference Monuments recovered	21
Reference Monuments painted	21
Reference Monuments photographed	21

**Southwest and South Lines  
(Maine/Quebec)**

Monuments recovered	198
Monuments painted	1
Reference Monuments photographed	192

**Highlands N.E. Section  
(Maine/Quebec)**

Monuments recovered	253
Monuments not recovered	2
Monuments repaired or re-established	123
Reference Monuments photographed	127
Monuments surveyed	20

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***Highlands S.W. Section  
(Maine, New Hampshire/Quebec)***

Monuments recovered	704
Monuments not recovered	6
Monuments repaired or re-established	7
Monuments painted	5
Reference Monuments photographed	691
Monuments surveyed	144

***West Line (QC/VT)  
(Vermont/Quebec)***

Monuments recovered	55
Monuments established	2
Monuments repaired or re-established	9
Monuments painted	30
Monuments surveyed	19

***West Line (QC/NY)  
(New York/Quebec)***

Monuments recovered	15
Monuments painted	15

***Meridian and 49th Parallel (MB/MN)  
(Minnesota/Manitoba)***

Monuments recovered	1
Monuments painted	1
Reference Monuments photographed	1
Monuments surveyed	1

***49th Parallel (MB/ND)  
(North Dakota/Manitoba)***

Monuments recovered	70
Monuments painted	70
Reference Monuments photographed	70
Monuments surveyed	70

**49th Parallel (AB-SK-MB/MT- ND)**

*(Montana, North Dakota/Alberta, British Columbia, Saskatchewan, Manitoba)*

Monuments recovered	198
Monuments repaired or re-established	1
Monuments painted	198
Monuments surveyed	196
Line Marks recovered	2
Line Marks painted	2
Reference Monuments photographed	2
Line Marks surveyed	2

**49th Parallel (Foothills to West Kootenay River)**

*(Idaho, Montana/British Columbia, Alberta)*

Monuments recovered	16
Monuments established	1
Monuments painted	17
Reference Monuments photographed	17
Monuments surveyed	17

**49th Parallel (Columbia Valley to Similkameen River)**

*(Washington/British Columbia)*

Monuments recovered	1
Monuments painted	1
Reference Monuments photographed	1
Monuments surveyed	1

**49th Parallel (Pacific to Columbia Valley)**

*(Washington/British Columbia)*

Monuments recovered	73
Monuments not recovered	6
Monuments established	2
Monuments painted	71
Reference Monuments photographed	70
Monuments surveyed	58
Reference Monuments recovered	1
Reference Monuments painted	1
Reference Monuments photographed	1

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**APPENDIX C – 15 YEAR PLAN**

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<b>Level</b>	<b>Major Task</b>	<b>Section</b>	<b>Cycle (years)</b>
3	Vista Clearing & Maintenance	Passamaquoddy Bay	3
3	Inspection & Maintenance	St. Croix River	8
1	Vista Clearing & Maintenance	North Line	6
3	Inspection & Maintenance	Saint John River	8
2	Inspection & Maintenance	St. Francis River	4
2	Vista Clearing & Maintenance	Southwest and South Lines	6
3	Inspection & Maintenance	Southwest Branch of the St. John River	8
2	Vista Clearing & Maintenance	Highlands N.E. Section	6
2	Vista Clearing & Maintenance	Highlands S.W. Section	6
2	Inspection & Maintenance	Halls Stream	4
1	Vista Clearing & Maintenance	West Line (QC/VT)	6
1	Vista Clearing & Maintenance	West Line (QC/NY)	6
3	Inspection & Maintenance	St. Lawrence River	8
3	Inspection & Maintenance	Lake Ontario and Niagara River	8
3	Inspection & Maintenance	Lake Erie, Detroit and St. Clair Rivers	8
3	Inspection & Maintenance	Lake Huron, Saint Marys River and Lake Superior	8
3	Inspection & Maintenance	Lake Superior to Rainy River	8
3	Inspection & Maintenance	Rainy River and Lake of the Woods	8
2	Vista Clearing & Maintenance	Meridian and 49th Parallel (MB/MN)	5
2	Vista Clearing & Maintenance	49th Parallel (MB/ND)	5
2	Vista Clearing & Maintenance	49th Parallel (AB-SK-MB/MT- ND)	5
3	Vista Clearing & Maintenance	49th Parallel (Foothills to West Kootenay River)	8
3	Vista Clearing & Maintenance	49th Parallel (Similkameen River to West Kootenay River)	8
3	Vista Clearing & Maintenance	49th Parallel (Columbia Valley to Similkameen River)	8
1	Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)	5
3	Inspection & Maintenance	Straits of Georgia and Juan De Fuca	8
3	Inspection & Maintenance	Portland Canal	8
3	Vista Clearing & Maintenance	Southeast Alaska	10
3	Vista Clearing & Maintenance	141st Meridian (YK/AK)	15

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<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2017</b>	Inspection & Maintenance	Passamaquoddy Bay
	Inspection & Maintenance	Saint John River
	Inspection & Maintenance	Highlands S.W. Section
	Vista Clearing	Highlands S.W. Section
	Inspection & Maintenance	West Line (QC/VT)
	Inspection & Maintenance	Lake Superior to Rainy River
	Inspection & Maintenance	Rainy River and Lake of the Woods
	Inspection & Maintenance	49th Parallel (AB-SK-MB/MT- ND)
	Survey	49th Parallel (Foothills to West Kootenay River)
	Maintenance	49th Parallel (Pacific to Columbia Valley)
	Vista Clearing	Southeast Alaska
	Survey	141st Meridian (YK/AK)
	Mapping	
	Contingency	
	<b>TOTAL</b>	<b>1,866</b>

<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2018</b>	Vista Clearing	North Line
	Inspection & Maintenance	Saint John River
	Inspection & Maintenance	St. Francis River
	Vista Clearing	Southwest and South Lines
	Inspection & Maintenance	Southwest Branch of the St. John River
	Maintenance	Highlands N.E. Section
	Vista Clearing	Highlands S.W. Section
	Inspection & Maintenance	Halls Stream
	Vista Clearing	West Line (QC/NY)
	Inspection & Maintenance	Lake Ontario and Niagara River
	Inspection	Meridian and 49th Parallel (MB/MN)
	Maintenance	49th Parallel (AB-SK-MB/MT- ND)
	Inspection & Maintenance	49th Parallel (Pacific to Columbia Valley)
	Vista Clearing	Southeast Alaska
	Mapping	
	Contingency	
	<b>TOTAL</b>	<b>2,206</b>

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<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2019</b>	Inspection & Maintenance	St. Croix River
	Inspection & Maintenance	North Line
	Maintenance	Highlands N.E. Section
	Vista Clearing	West Line (QC/VT)
	Inspection & Maintenance	St. Lawrence River
	Inspection & Maintenance	Lake Erie, Detroit and St. Clair Rivers
	Vista Clearing	Meridian and 49th Parallel (MB/MN)
	Maintenance	49th Parallel (MB/ND)
	Vista Clearing	49th Parallel (MB/ND)
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing	49th Parallel (Similkameen River to West Kootenay River)
	Vista Clearing	49th Parallel (Pacific to Columbia Valley)
	Vista Clearing	Southeast Alaska
	Mapping	
	Contingency	
	<b>TOTAL</b>	<b>2,091</b>

<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2020</b>	Maintenance	Passamaquoddy Bay
	Maintenance	St. Croix River
	Maintenance	North Line
	Vista Clearing	Highlands N.E. Section
	Vista Clearing	West Line (QC/VT)
	Inspection & Maintenance	Lake Huron, Saint Marys River and Lake Superior
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing	49th Parallel (Similkameen River to West Kootenay River)
	Vista Clearing	49th Parallel (Columbia Valley to Similkameen River)
	Inspection & Maintenance	49th Parallel (Pacific to Columbia Valley)
	Inspection & Maintenance	Straits of Georgia and Juan De Fuca
	Vista Clearing	Southeast Alaska
	Maintenance	Southeast Alaska
	Capital	Truck replacement
	Contingency	
	<b>TOTAL</b>	<b>2,208</b>

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<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2021</b>	Maintenance	Highlands S.W. Section
	Vista Clearing & Maintenance	Meridian and 49th Parallel (MB/MN)
	Vista Clearing	49th Parallel (MB/ND)
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)
	Inspection & Maintenance	Portland Canal
	Vista Clearing & Maintenance	Southeast Alaska
	Contingency	
	<b>TOTAL</b>	<b>2,154</b>

<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2022</b>	Inspection & Maintenance	St. Francis River
	Vista Clearing	Highlands N.E. Section
	Maintenance	Highlands S.W. Section
	Inspection & Maintenance	Halls Stream
	Maintenance	Meridian and 49th Parallel (MB/MN)
	Maintenance	49th Parallel (AB-SK-MB/MT- ND)
	Maintenance	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing	49th Parallel (Similkameen River to West Kootenay River)
	Contingency	
	<b>TOTAL</b>	<b>2,064</b>

<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2023</b>	Survey	Passamaquoddy Bay
	Maintenance	Passamaquoddy Bay
	Survey	St. Croix River
	Vista Clearing & Maintenance	Southwest and South Lines
	Vista Clearing & Maintenance	Highlands S.W. Section
	Vista Clearing	West Line (QC/NY)
	Maintenance	Meridian and 49th Parallel (MB/MN)
	Vista Clearing & Maintenance	49th Parallel (Foothills to West Kootenay River)
	Maintenance	49th Parallel (Similkameen River to West Kootenay River)
	Contingency	
	<b>TOTAL</b>	<b>1,943</b>

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**2024**

<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
Vista Clearing	North Line	90
Vista Clearing	Highlands S.W. Section	250
Vista Clearing	West Line (QC/VT)	110
Vista Clearing	Meridian and 49th Parallel (MB/MN)	250
Maintenance	49th Parallel (MB/ND)	184
Vista Clearing & Maintenance	141st Meridian (YK/AK)	750
Vista Clearing & Maintenance	141st Meridian (YK/AK)	500
Contingency		50
<b>TOTAL</b>		<b>2,184</b>

**2025**

<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
Vista Clearing & Maintenance	North Line	193
Vista Clearing	West Line (QC/VT)	90
Maintenance	St. Lawrence River	90
Maintenance	Lake Superior to Rainy River	93
Maintenance	Rainy River and Lake of the Woods	92
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	45
Vista Clearing & Maintenance	49th Parallel (Columbia Valley to Similkameen River)	500
Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)	200
Vista Clearing	141st Meridian (YK/AK)	192
Vista Clearing	141st Meridian (YK/AK)	888
Contingency		50
<b>TOTAL</b>		<b>2,433</b>

**2026**

<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
Vista Clearing & Maintenance	Passamaquoddy Bay	48
Vista Clearing & Maintenance	North Line	99
Maintenance	Saint John River	186
Maintenance	St. Francis River	80
Maintenance	Southwest Branch of the St. John River	200
Inspection & Maintenance	Halls Stream	75
Maintenance	Lake Ontario and Niagara River	60
Vista Clearing	Meridian and 49th Parallel (MB/MN)	230
Vista Clearing	49th Parallel (Foothills to West Kootenay River)	46
Vista Clearing	141st Meridian (YK/AK)	1,008
Vista Clearing	141st Meridian (YK/AK)	550
Contingency		50
<b>TOTAL</b>		<b>2,632</b>

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	<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2027</b>	Maintenance	St. Croix River	100
	Maintenance	Lake Erie, Detroit and St. Clair Rivers	100
	Vista Clearing	Meridian and 49th Parallel (MB/MN)	187
	Inspection & Maintenance	49th Parallel (AB-SK-MB/MT- ND)	190
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)	47
	Vista Clearing & Maintenance	49th Parallel (Similkameen River to West Kootenay River)	430
	Vista Clearing	141st Meridian (YK/AK)	573
	Vista Clearing	141st Meridian (YK/AK)	555
	Contingency		50
	<b>TOTAL</b>		<b>2,232</b>
<b>2028</b>	Maintenance	St. Croix River	100
	Vista Clearing & Maintenance	Southwest and South Lines	310
	Vista Clearing	Highlands N.E. Section	275
	Vista Clearing & Maintenance	West Line (QC/NY)	190
	Inspection & Maintenance	Lake Huron, Saint Marys River and Lake Superior	95
	Vista Clearing & Maintenance	Meridian and 49th Parallel (MB/MN)	73
	Vista Clearing & Maintenance	49th Parallel (MB/ND)	73
	Maintenance	49th Parallel (AB-SK-MB/MT- ND)	210
	Vista Clearing & Maintenance	49th Parallel (Foothills to West Kootenay River)	667
	Vista Clearing	141st Meridian (YK/AK)	600
	Contingency		50
	<b>TOTAL</b>		<b>2,643</b>
<b>2029</b>	Vista Clearing & Maintenance	Passamaquoddy Bay	52
	Vista Clearing	Highlands S.W. Section	275
	Vista Clearing	West Line (QC/VT)	125
	Vista Clearing	Meridian and 49th Parallel (MB/MN)	295
	Vista Clearing & Maintenance	49th Parallel (MB/ND)	189
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)	49
	Vista Clearing & Maintenance	49th Parallel (Columbia Valley to Similkameen River)	550
	Inspection & Maintenance	Portland Canal	155
	Vista Clearing & Maintenance	Southeast Alaska	400
	Contingency		50
	<b>TOTAL</b>		<b>2,140</b>

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<b>Task</b>	<b>Section</b>	<b>x 1000\$</b>
<b>2030</b>	Vista Clearing & Maintenance	North Line
	Inspection & Maintenance	St. Francis River
	Vista Clearing	West Line (QC/VT)
	Inspection & Maintenance	Halls Stream
	Vista Clearing	49th Parallel (Foothills to West Kootenay River)
	Vista Clearing & Maintenance	49th Parallel (Pacific to Columbia Valley)
	Vista Clearing & Maintenance	Southeast Alaska
	Vista Clearing & Maintenance	Southeast Alaska
	Contingency	
	<b>TOTAL</b>	<b>1,785</b>

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**APPENDIX D – PLANS OF MONUMENTS INSTALLED**





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