|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1875 | Apr. 20 | 1. Hudson’s Bay Co. archives as referred to in Blench and Associates Ltd. (1964) 2. Moberly and Cameron (1929) as referred to in Blench and Associates Ltd. (1964) | 251.5 – 253.0  at Hudson’s Bay Co. post on Apr. 20 | Jammed on Apr. 20 | 252.0 **a** | Largest flood on record |
|  |  |  |  |  |  |  |
| 1881 | Apr. 21 | Hudson’s Bay Co. archives as referred to in Blench and Associates Ltd. (1964) | < 250  at Hudson’s Bay Co. post on Apr. 21 | Between MacDonald Island and the little island opposite to the Hudson’s Bay Co. post, formed on Apr. 21 | 249.0 **a** | Flood |
|  |  |  |  |  |  |  |
| 1885 | Apr. 9 | Hudson’s Bay Co. archives as referred to in Blench and Associates Ltd. (1964) | 249.0  at Hudson’s Bay Co. post | Jammed on Apr. 9 | 248.1 **a** | Flood |
|  |  |  |  |  |  |  |
| 1925 |  | Northern Alberta Railways Co. as referred to in Blench and Associates Ltd. (1964) | 247.4  at Waterways | Ice jam |  | Flood |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1928 |  | Northern Alberta Railways Co. as referred to in Blench and Associates Ltd. (1964) | 248.6  at Waterways | Ice jam |  | Flood |
|  |  |  |  |  |  |  |
| 1936 | Apr. 21 | Northern Alberta Railways Co. as referred to in Blench and Associates Ltd. (1964) | 250.1  at Waterways on Apr. 22 | Ice jam |  | Flood |
|  |  |  |  |  |  |  |
| 1938 | Apr. 27 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1939 | Apr. 21 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1940 | Apr. 25 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1941 | Apr. 14 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1948 | May 1 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1949 | Apr. 15 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1950 | Apr. 28 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1953 | Apr. 21 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1954 | May 9 **b** | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1955 | Apr. 17 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1956 | Apr. 20 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1957 | Prior to May 3 | D.O.T. Canada (1959) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1958 | Apr. 15 | D.O.T. Canada (1959)  Department of Northern Affairs and National Resources as referred to in Blench and Associates Ltd. (1964) | 244.9  at WSC gauge below Fort McMurray | Ice jam |  | No flood damage at Fort McMurray |
|  |  |  |  |  |  |  |
| 1959 | Apr. 13 | McMurray office, D.O.T., as referred to in Blench and Associates Ltd. (1964) |  |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1960 | Apr. 12  Apr. 15 **f** | McMurray office,  D.O.T., as referred to in  Blench and Associates  Ltd. (1964)  Doyle (1987) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1961 | May 8 **b**  Apr. 28 **f** | McMurray office, D.O.T., as referred to in Blench and Associates Ltd. (1964)  Doyle (1987) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1962 | Apr. 24  Apr. 17 **f** | McMurray office, D.O.T., as referred to in Blench and Associates Ltd. (1964)  Department of Northern Affairs and National Resources as referred to in Blench and Associates Ltd. (1964)  Doyle (1987) | 246.2  high water marks  242.7 **h**  at WSC gauge below Fort McMurray | Ice jam |  | Flood |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1963 | Apr. 20 | McMurray office, D.O.T., as referred to in Blench and Associates Ltd. (1964)  Department of Northern Affairs and National Resources as referred to in Blench and Associates Ltd. (1964)  Doyle (1987) | 247.5  on Athabasca River at the Snye and at the Northern Transportation Co. Ltd. Docks from high water marks  244.1 **c h**  at WSC gauge below Fort McMurray | Across the Athabasca River just downstream of the Snye |  | Flood |
|  |  |  |  |  |  |  |
| 1964 | Apr. 24  Apr. 21 **f** | Blench and Associated Ltd. (1964)  Doyle (1987) |  | Ice jam |  | Flood not severe |
|  |  |  |  |  |  |  |
| 1965 | Apr. 14 **f** | Doyle (1987) |  |  |  |  |
|  |  |  |  |  |  |  |
| 1966 | Apr. 15 **f** | Doyle (1987) | 239.6 **i**  at WSC gauge below Fort McMurray |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1967 | Apr. 28 **f** | Doyle (1987) | 238.8 **g i**  at WSC gauge below Fort McMurray |  |  |  |
|  |  |  |  |  |  |  |
| 1968 | Apr. 27 **f** | Doyle (1987) | 238.4 **i**  at WSC gauge below Fort McMurray |  |  | Thermal breakup |
|  |  |  |  |  |  |  |
| 1969 | Apr. 14 **f** | Doyle (1987) | 239.0 **g i**  at WSC gauge below Fort McMurray |  |  |  |
|  |  |  |  |  |  |  |
| 1970 | Apr. 7 **f** | Doyle (1987) | 238.4 **i**  at WSC gauge below Fort McMurray |  |  |  |
|  |  |  |  |  |  |  |
| 1971 | Apr. 20 **f** | Doyle (1987) | 239.0 **i**  at WSC gauge below Fort McMurray |  |  |  |
|  |  |  |  |  |  |  |
| 1972 | Apr. 22 **f** | Doyle (1987)  Northwest Hydraulic Consultant Ltd. Report (1978) | 244.7 **i**  at WSC gauge below Fort McMurray  245.3  likely at MacEwan Bridge | Ice jam | 244.3 **a b** |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1973 | Apr. 18 **f**  Apr. 18 | Doyle (1987)  WSC gauge below Fort McMurray strip chart | 240.4 **i**  at WSC gauge below Fort McMurray  240.5  at WSC gauge below Fort McMurray on Apr. 20 |  |  |  |
|  |  |  |  |  |  |  |
| 1974 | Apr. 19 **f**  Apr. 19  Apr. 20 | Doyle (1987)  WSC gauge below Fort McMurray strip chart  Northwest Hydraulic Consultants Ltd. (1974) | 243.8 **b i**  at WSC gauge below Fort McMurray  241.4 **g**  at WSC gauge below Fort McMurray on Apr. 29  247.2  at MacEwan Bridge on Apr. 20 |  | 246.7  about 5 km upstream of Clearwater River confluence on Apr. 21 | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1975 | Apr. 25 **f** | Doyle (1987) | 238.7 **g i**  at WSC gauge below Fort McMurray |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1975 | Apr. 25 **c** | WSC gauge below Fort McMurray strip chart | 239.7 **g**  at WSC gauge below Fort McMurray on Apr. 29 |  |  |  |
|  |  |  |  |  |  |  |
| 1976 | Apr. 12 **f**  Apr. 13 | Doyle (1987)  WSC gauge below Fort McMurray strip chart | 242.4 **j**  at WSC gauge below Fort McMurray  242.2 **g**  at WSC gauge below Fort McMurray on Apr. 13 |  |  |  |
|  |  |  |  |  |  |  |
| 1977 | Apr. 15 **f**  Apr. 14 **c** | Doyle (1987)  WSC gauge below Fort McMurray strip chart  Alberta Environment (personal communication) | 244.2 **j**  at WSC gauge below Fort McMurray  242.8 **g**  at WSC gauge below Fort McMurray on Apr. 15  247.4 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1977 | Apr. 14 | Alberta Research Council (1977) | 248.7  at MacEwan Bridge on Apr. 14 | Original jam toe at the upstream end of Poplar Island (9 km downstream of bridges) to 14 km upstream of the bridges (1.6 km upstream of Mountain Rapids), formed on Apr. 14  Subsequent jam toe downstream of the Clearwater mouth among the group of islands, formed on Apr. 15 | 248.0  at Waterways on Apr. 15  247.8  at Clearwater school on Apr. 15  247.9  at Clearwater River side of MacDonald Island at the confluence on Apr. 15  247.6  at Athabasca River side of MacDonald Island at the confluence on Apr. 15 | Flood |
|  |  |  |  |  |  |  |
| 1978 |  | Doyle (1987) | 238.7 **b j**  at WSC gauge below Fort McMurray |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1978 | Apr. 19  Apr. 19 | WSC gauge below Fort McMurray strip chart  Alberta Research Council (1978) | 240.6  at WSC gauge below Fort McMurray on Apr. 19  242.0  at Clearwater River confluence | At MacEwan Bridge (22 km long), jammed on Apr. 19 |  |  |
|  |  |  |  |  |  |  |
| 1979 | Apr. 28 **f**  Apr. 28  Apr. 28 | Doyle (1987)  WSC gauge below Fort McMurray strip chart  Alberta Research Council (1979) | 242.7 **b j**  at WSC gauge below Fort McMurray  244.9 **g**  at WSC gauge below Fort McMurray on May 3  247.5  at MacEwan Bridge on Apr. 29 | At island 16 km downstream of MacEwan Bridge to 2km downstream of Mountain Rapids, jammed on Apr. 28 | 246.9  on Athabasca River immediately upstream of the Clearwater River mouth on Apr. 29 | Minor flood compare to 1977 event |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
|  |  |  |  |  |  |  |
| 1979 |  | Alberta Research Council (1979) |  |  | 246.5  on Clearwater River immediately upstream of the confluence  246.8  at Grimshaw Trucking terminal on Apr. 30  246.9  at WSC gauge at Draper |  |
|  |  |  |  |  |  |  |
| 1980 | Apr. 14 **f**  Apr. 15 | Doyle (1987)  WSC gauge below Fort McMurray strip chart | 240.7 **j**  at WSC gauge below Fort McMurray  240.7  at WSC gauge below Fort McMurray on Apr. 17 |  |  |  |
|  |  |  |  |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1981 | Apr. 10 **f**  Apr. 10 | Doyle (1987)  WSC gauge below Fort McMurray strip chart | 240.7 **j**  at WSC gauge below Fort McMurray  239.3 **g**  at WSC gauge below Fort McMurray on Apr. 10 |  |  |  |
|  |  |  |  |  |  |  |
| 1982 | Apr. 25 **f**  Apr. 26 | Doyle (1987)  Alberta Environment (1982) | 238.9 **j**  at WSC gauge below Fort McMurray  246.8  at MacEwan Bridge on Apr. 26 | Between MacEwan Bridge and Clearwater River confluence | 242.2  at Clearwater River confluence on Apr. 26 |  |
|  |  |  |  |  |  |  |
| 1983 | Apr. 18 **f**  Apr. 18 | Doyle (1987)  WSC gauge below Fort McMurray strip chart | 237.7 **b j**  at WSC gauge below Fort McMurray  239.6  at WSC gauge below Fort McMurray on Apr. 22 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1983 | Apr. 25 | Alberta Research Council (1984) | 239.5  at WSC gauge below Fort McMurray on Apr. 22 |  | 242.0  at MacEwan Bridge on Apr. 21  242.3 b  at N.T.C.L .Dock on Apr. 21 | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1984 | Apr. 10 **f**  Apr. 10  Apr. 11 | Doyle (1987)  WSC gauge below Fort McMurray strip chart  Alberta Research Council (1985) | 240.2 **j**  at WSC gauge below Fort McMurray  240.9  at WSC gauge below Fort McMurray on Apr. 11  244.5  at MacEwan Bridge on Apr. 11 | Jam toe 0.8 km upstream of MacEwan Bridge (9.4 km long), jammed on Apr. 10 | 241.0  at WSC gauge below Fort McMurray on Apr. 11  243.5 **d b** | No serious flooding |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
|  |  |  |  |  |  |  |
| 1984 |  | Alberta Research Council (1985) |  | Subsequent jam toe downstream of WSC gauge below Fort McMurray formed on Apr. 11 |  |  |
|  |  |  |  |  |  |  |
| 1985 | Apr. 14  Apr. 18 | Doyle (1987)  WSC gauge below Fort McMurray strip chart  Alberta Research Council (1985) | 241.2 **j**  at WSC gauge below Fort McMurray  239.4 **g**  at WSC gauge below Fort McMurray on Apr. 14  243.5  at Clearwater River confluence |  |  | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1986 | Apr. 19 | WSC gauge below Fort McMurray strip chart | 240.9  at WSC gauge below Fort McMurray on Apr. 20 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
|  |  |  |  |  |  |  |
| 1986 | Apr. 19 | Alberta Research Council (1988) | 244.0  at Clearwater River confluence | Jam toe 0.8 km upstream of the mouth of Parsons Creek, head of jam just downstream of Mountain Rapids, formed on Apr. 19 |  |  |
|  |  |  |  |  |  |  |
| 1987 | Apr. 16  Apr. 16  Apr. 16 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo  Alberta Research Council (1988) | 240.7 **g**  at WSC gauge below Fort McMurray on Apr. 17  246.5  at MacEwan Bridge on Apr. 16 | Jam toe just downstream of Poplar Island, head of jam some 5 km upstream of MacEwan Bridge, formed on Apr. 16 | 244.5  at Clearwater River confluence on Apr. 16 |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
|  |  |  |  |  |  |  |
| 1987 | Apr. 16 | Alberta Environment (1988) | 246.5  at MacEwan Bridge on Apr. 16 | Jam toe in vicinity of Poplar Island, formed on Apr. 16  Subsequent jam toe just below Stony Island (approximately 17 km downstream of MacEwan Bridge), head of jam just downstream of Mountain Rapids (some 11 km upstream of MacEwan Bridge), formed on Apr. 16 | 244.9  at Clearwater River confluence on Apr. 16  245.1  at Clearwater River confluence on Apr. 17 |  |
|  |  |  |  |  |  |  |
| 1988 | Apr. 16 **c**  Apr. 18 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo | 240.6 **g**  at WSC gauge below Fort McMurray on Apr. 16 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1988 | Apr. 16 | Alberta Environment (1989): Draft | 244.8  at MacEwan Bridge on Apr. 16 | Jam toe just upstream of Poplar Island, head of jam just downstream of Mountain Rapids, formed on Apr. 16 | 244.5  at Clearwater River confluence on Apr. 16  243.1  at N.T.C.L .Dock and Waterways on Apr. 16 | No flooding reported |
|  |  |  |  |  |  |  |
| 1989 | Apr. 22 **c**  Apr. 22 | WSC gauge below Fort McMurray strip chart  City of Fort McMurray as referred to in Alberta Environmental Protection (1993)  Regional Municipality of Wood Buffalo | 238.2 **g**  at WSC gauge below Fort McMurray on Apr. 22  243.1  at Clearwater River confluence |  |  |  |
|  |  |  |  |  |  |  |
| 1990 | Apr. 20 **c** | WSC gauge below Fort McMurray strip chart | 239.3 **g**  at WSC gauge below Fort McMurray on Apr. 25 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1990 | Apr. 21 | City of Fort McMurray as referred to in Alberta Environmental Protection (1993)  Regional Municipality of Wood Buffalo | 243.0  at Clearwater River confluence |  |  |  |
|  |  |  |  |  |  |  |
| 1991 | Apr. 13  Apr. 18 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo  Alberta Environment (personal communication) | 240.1 **g**  at WSC gauge below Fort McMurray on Apr. 18 |  |  | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1992 | Apr. 3  Apr. 17 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo | 239.5  at WSC gauge below Fort McMurray on Apr. 3 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1992 |  | Alberta Environment (personal communication) |  |  |  | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1993 | Apr. 19 **c**  Apr. 19 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo  Alberta Environment (personal communication) | 238.5 **g**  at WSC gauge below Fort McMurray on Apr. 19 |  |  | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1994 | Apr. 11  Apr. 12 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo  Alberta Environment (personal communication) | 242.8  at WSC gauge below Fort McMurray on Apr. 12 |  |  | Uneventful breakup |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
|  |  |  |  |  |  |  |
| 1995 | Apr. 22  Apr. 22 to Apr. 28 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo  Alberta Environment (personal communication) | 239.0  at WSC gauge below Fort McMurray on Apr. 22 |  |  | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1996 | Apr. 16  Apr. 16 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo  Alberta Environment (personal communication) | 243.2  at WSC gauge below Fort McMurray on Apr. 21 | Ice jam below Clearwater River confluence |  |  |
|  |  |  |  |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1997 | Apr. 20 | Regional Municipality of Wood Buffalo  Alberta Environment (personal communication) | 247.0 | Ice Jam |  |  |
|  |  |  |  |  |  |  |
| 1998 | Apr. 9  Apr. 19 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo (2002)  Alberta Environment (personal communication) | 239.0  at WSC gauge below Fort McMurray on Apr. 15  243.0  at Water Treatment Plant on Apr. 15 |  |  | Uneventful breakup |
|  |  |  |  |  |  |  |
| 1999 | Apr. 14  Apr. 18 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo (2002) | 238.5  at WSC gauge below Fort McMurray on Apr. 20  242.7  at Water Treatment Plant on Apr. 18 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 1999 |  | University of Alberta | 242.0  at Water Intake I |  | 242.1  at Water Intake II  241.2  at MacEwan Bridge  240.8  at MacDonald Island  240.4  at Clearwater River side of MacDonald Island at the confluence | Thermal breakup |
|  |  |  |  |  |  |  |
| 2000 | Apr. 23  Apr. 25 | WSC gauge below Fort McMurray strip chart  Regional Municipality of Wood Buffalo (2002) | 238.6  at WSC gauge below Fort McMurray on Apr. 23  241.9  at Water Treatment Plant on Apr. 23 |  |  |  |
| **Year** | **Breakup Date** | **Source** | **Maximum Water Elevation (m)** | **Location of Ice Jam** | **Other Elevations** | **Comments** |
| 2000 |  | University of Alberta | 240.6  at Clearwater River side of MacDonald Island at the confluence |  |  | Uneventful breakup |
|  |  |  |  |  |  |  |
| 2001 | Apr. 26  Apr. 25 | Regional Municipality of Wood Buffalo (2002)  University of Alberta | 242.9  at Water Treatment Plant on Apr. 26  239.5 **e**  at Lagoon |  | 241.8  at Waterways on Apr. 24  236.9 **e**  at Sawmill  243.2 **e**  at Water Intake I  242.7 **e**  Water Intake II  242.1 **e**  at Bridges  240.9  at Clearwater River side of MacDonald Island at the confluence | Small ice run |

**a** Adjusted to the Clearwater River confluence, Northwest Hydraulic Consultant Ltd. Report (1978)

**b** Questionable

**c** WSC gauge below Fort McMurray malfunctioning

**d** Adjusted to the Clearwater River confluence, Alberta Environmental Protection (1993)

**e** High water mark observed on Apr. 28

**f** End of discharge increase prior to breakup from WSC chart as referred to in Doyle (1987)

**g** Highest measurement from WSC strip charts at the gauge below Fort McMurray, discontinued record during breakup

**h** T. Blench and Associates Ltd. (1964) as referred to in Doyle (1987)

**i** Strip charts from WSC gauge below Fort McMurray as referred to in Doyle (1987)

**j** Personal communication with D. Andres, Alberta Research Council, as referred to in Doyle (1987)

**Note:** Ice jams were documented if they were located in the vicinity of Fort McMurray from the Golf Course (approximately 4 km upstream of the MacEwan Bridge) to downstream of the Clearwater River confluence where it affects the Clearwater River stage. If no jams occurred in this reach, it was specified as an uneventful year.

**General Information:**

* The Water Treatment Plant represents the same location as the Water Intake # 1 and is approximately located 1.6 km upstream of MacEwan Bridge.
* Water Intake #2 is around 0.4 km upstream of the bridges in Fort McMurray.
* The Lagoon station is approximately 3.8 km downstream of the MacEwan Bridge.
* The Sawmill is located around 15.8 km downstream of the bridges in Fort McMurray.