

# **OIL SANDS GROWTH 1984-2011**

## ***A Visual Chronology – and Forecasts for the Future***

**J. David Hughes**  
*Global Sustainability Research Inc.*

# **Observations**

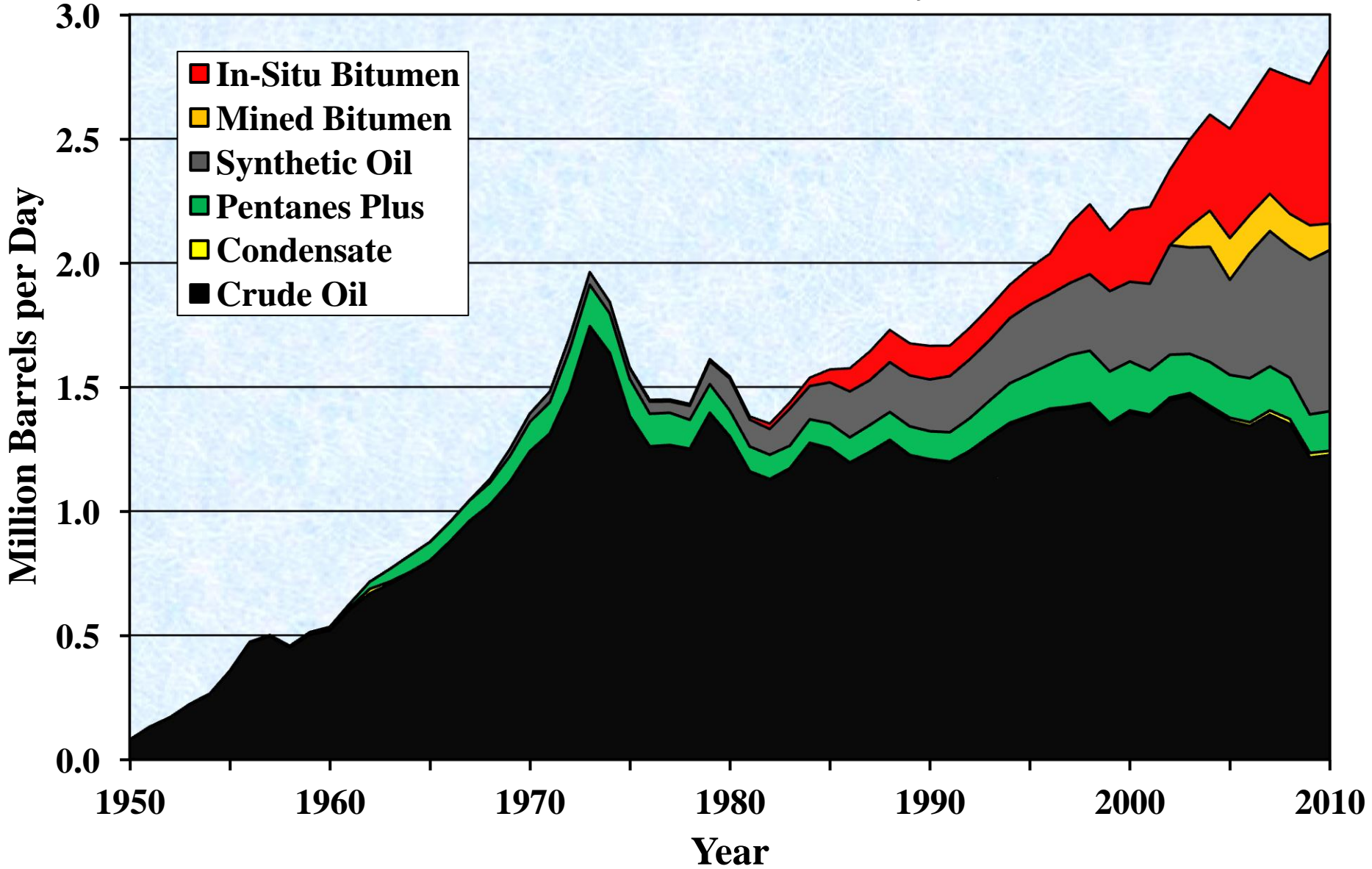
**Canadian Oil Production History and the  
Growth of the Oil Sands**

**The Oil Sands Footprint from Space  
*SO FAR***

**Aspirations of Oil Sands Growth in the Future  
*Visions of Growth by Governments, Industry Lobbyists and  
Private Sector pipeline proponents***

# Canada Crude Oil and Equivalent Production, 1950-2010

*(Oil Sands include Bitumen and Synthetic Oil)*





# **Oil Sands July 23, 1984**

**0.17 Million  
Barrels per Day**



**Ft. McMurray**



# **Oil Sands Sept 18, 1987**

**0.3 Million  
Barrels per Day**





# **Oil Sands**

## **August 6, 1989**

**0.33 Million  
Barrels per Day**



**Ft. McMurray**

A white arrow pointing from the text 'Ft. McMurray' to a specific location on the river in the lower right portion of the image.



# **Oil Sands July 27, 1991**

**0.35 Million  
Barrels per Day**



**Ft. McMurray**



# **Oil Sands** **Sept 24, 1995**

**0.43 Million  
Barrels per Day**

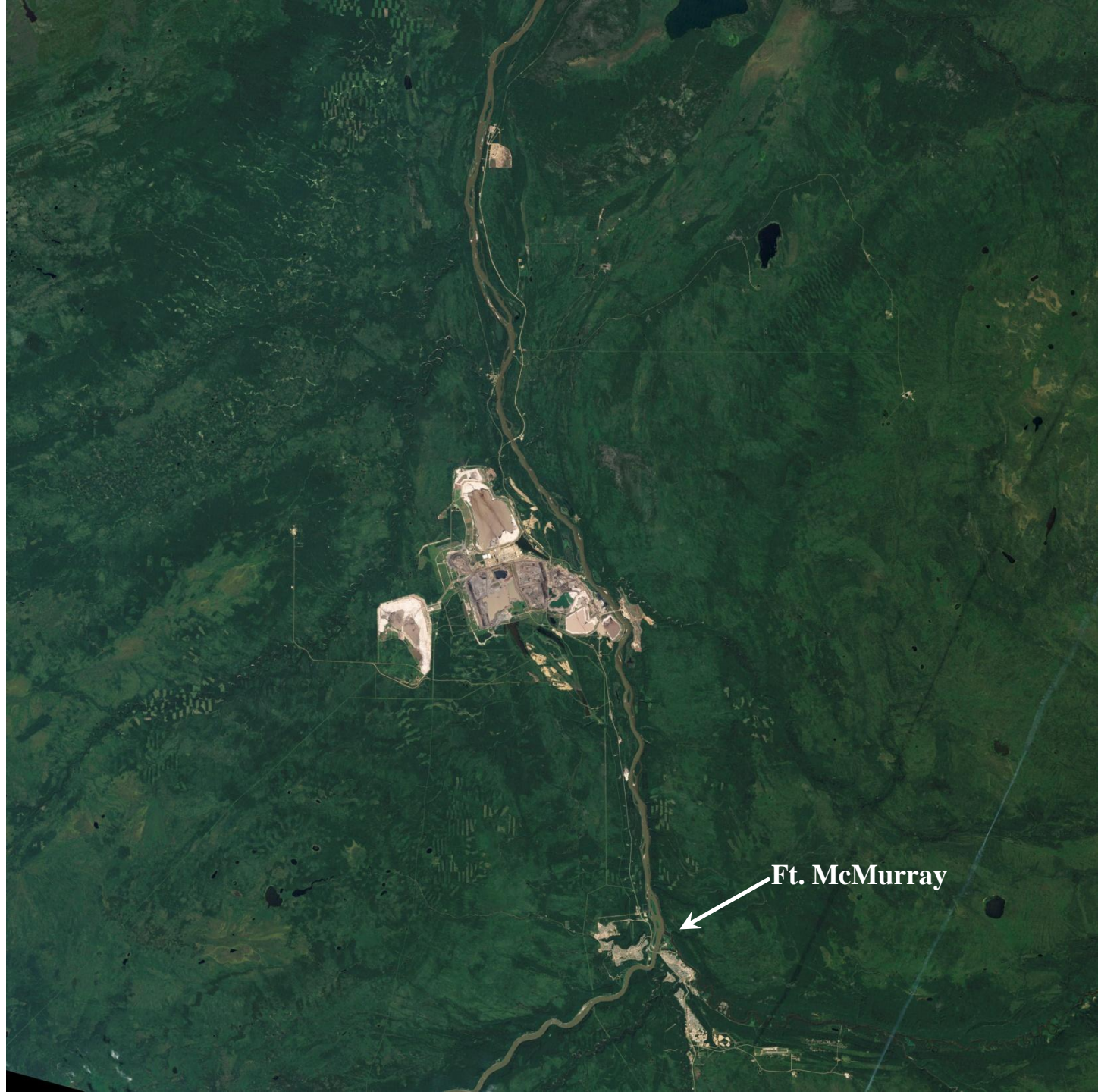


**Ft. McMurray**



**Oil Sands**  
**August 12, 1997**

**0.53 Million  
Barrels per Day**

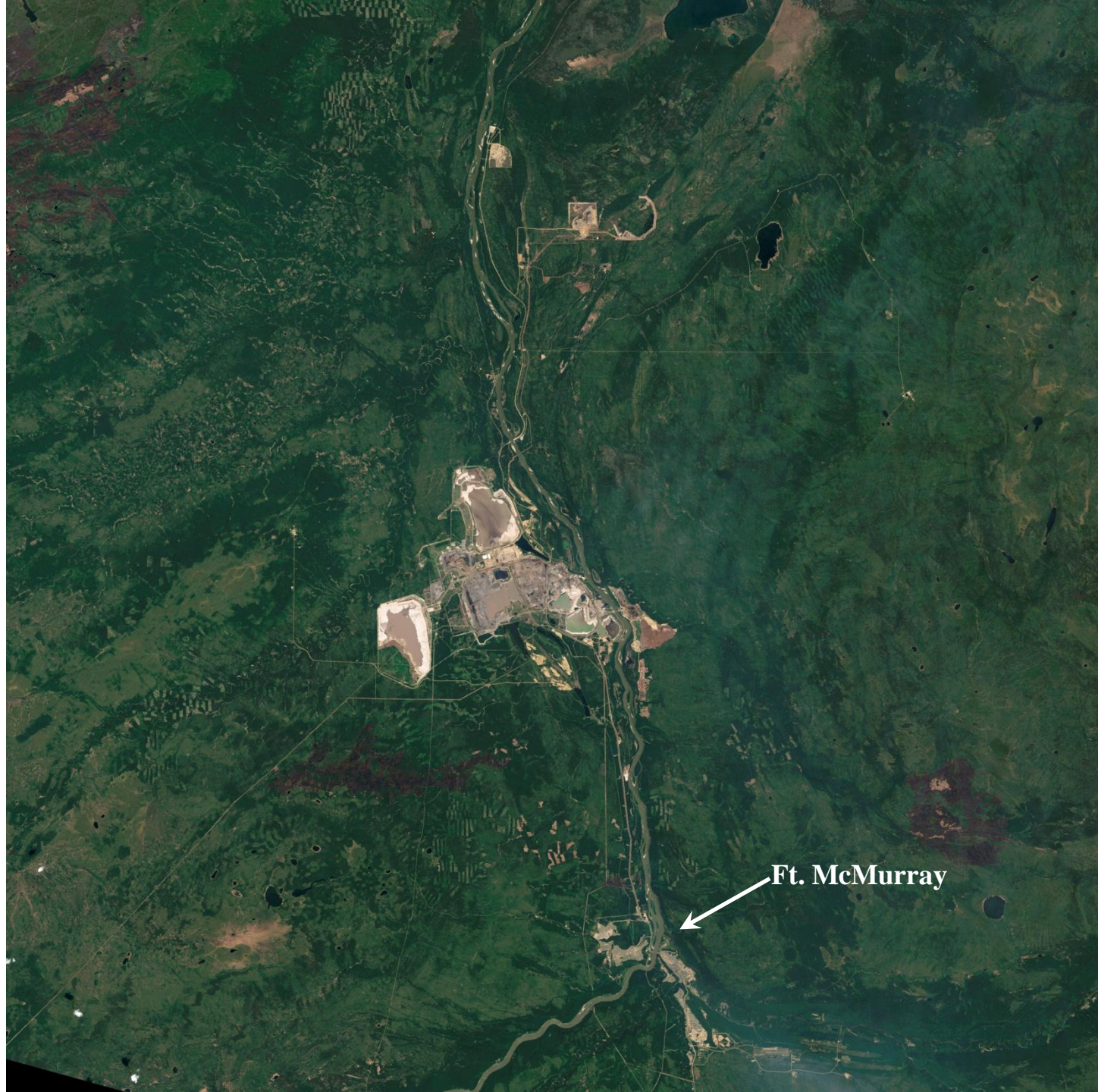




# **Oil Sands**

## **June 15, 1999**

**0.57 Million  
Barrels per Day**



**Ft. McMurray**



# **Oil Sands August 7, 2001**

**0.66 Million  
Barrels per Day**

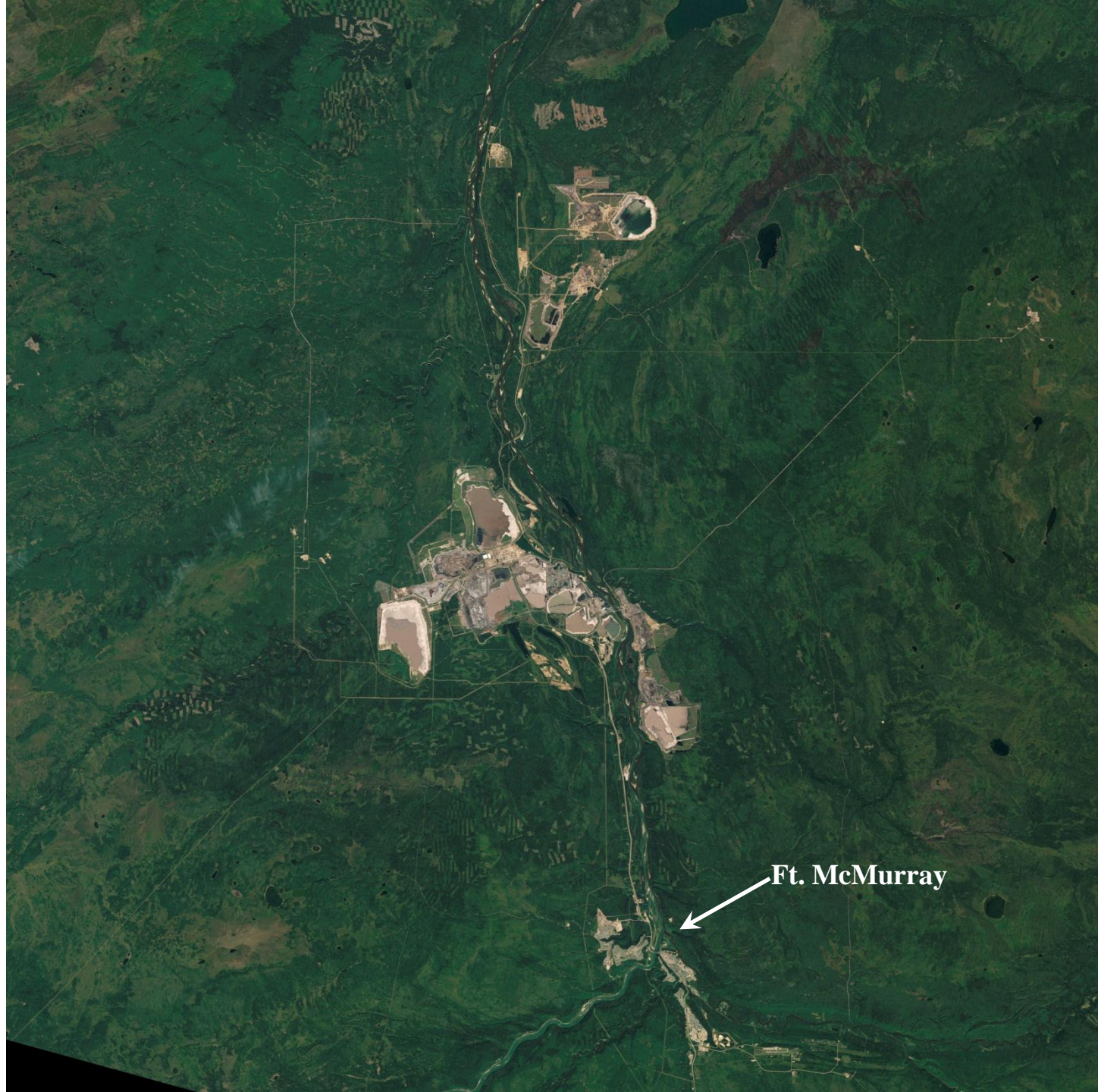


**Ft. McMurray**



# **Oil Sands Sept 11, 2002**

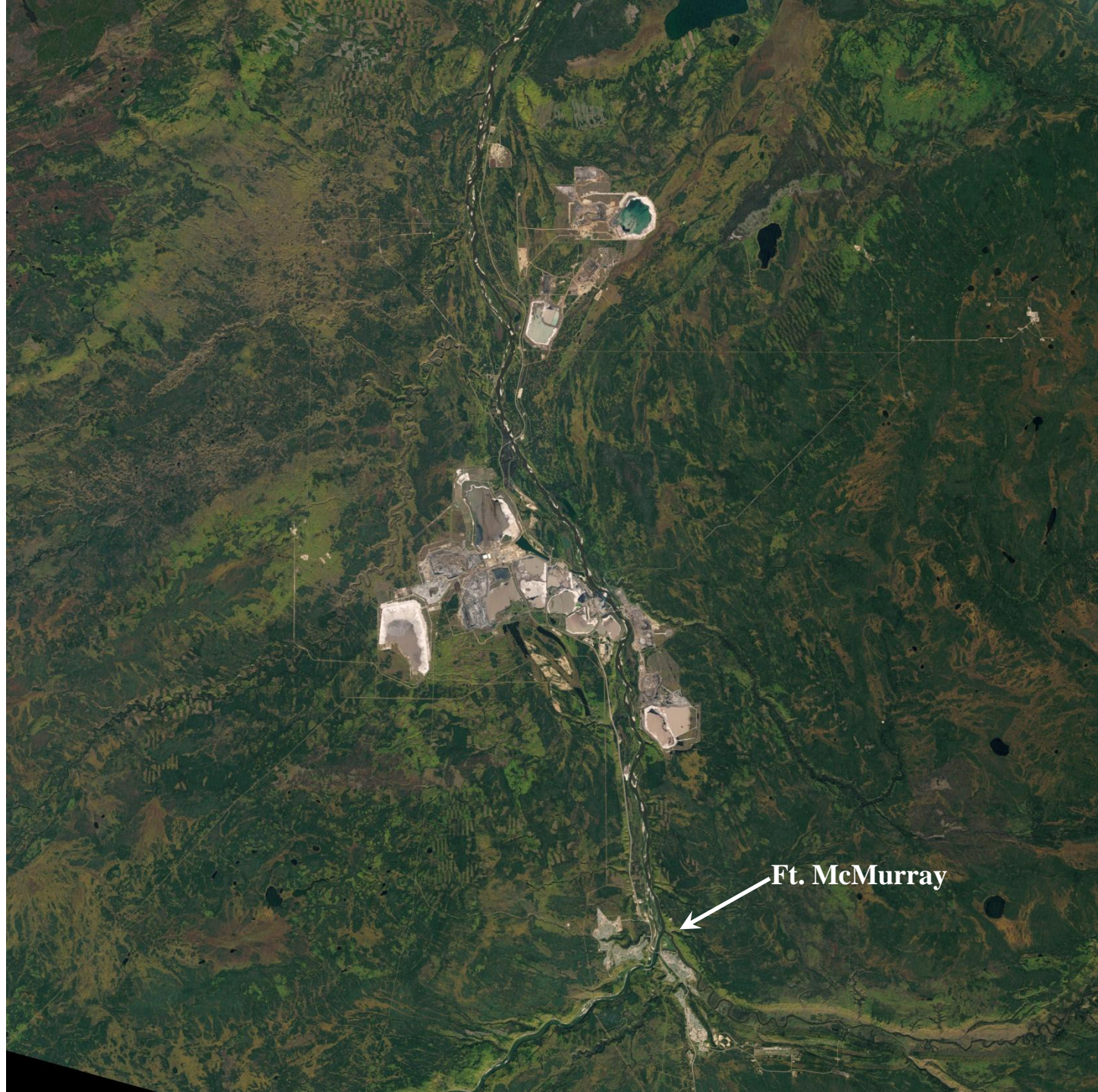
**0.74 Million  
Barrels per Day**





# **Oil Sands** **Sept 30, 2003**

**0.86 Million  
Barrels per Day**



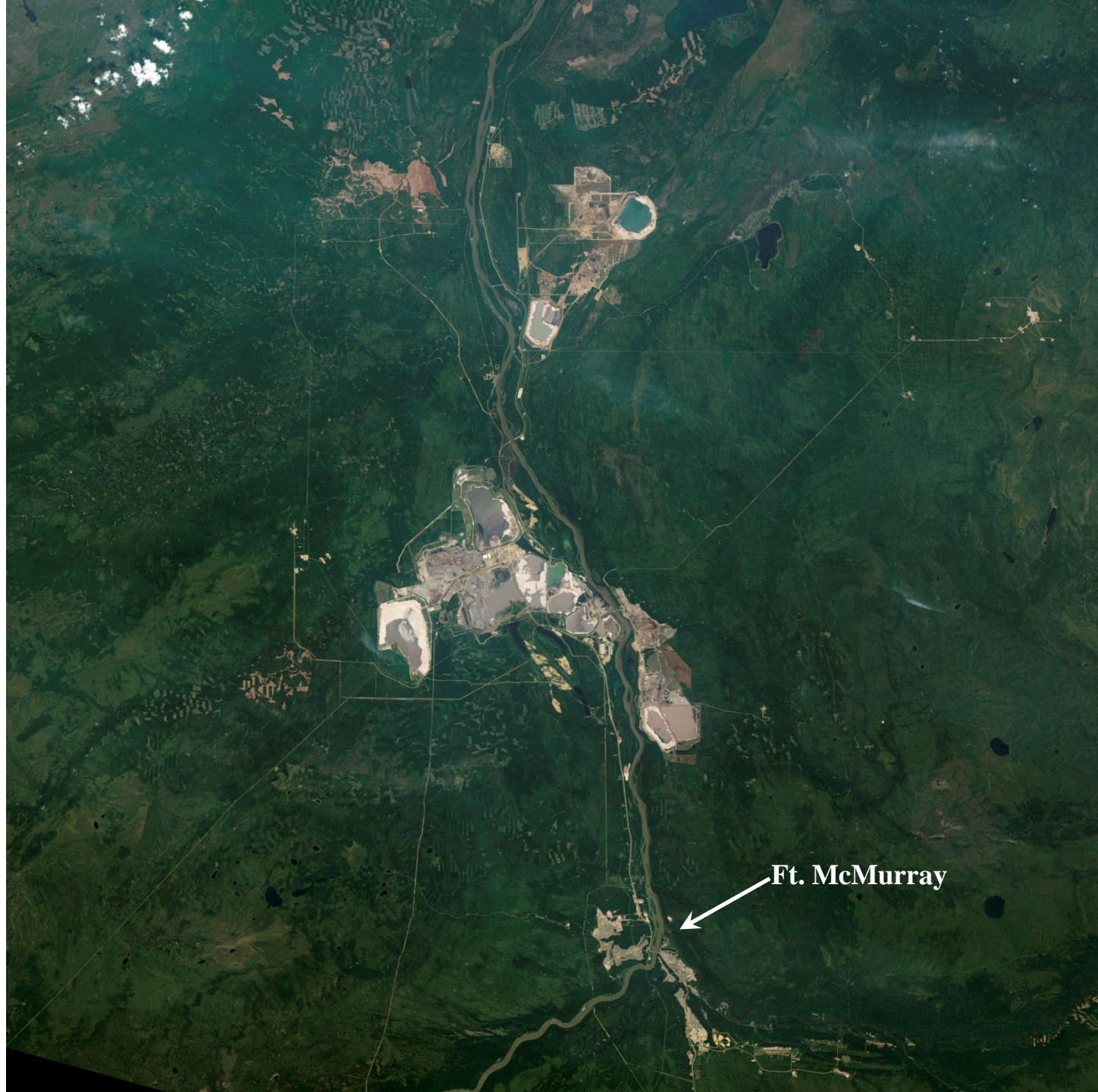
**Ft. McMurray**



# **Oil Sands**

## **June 20, 2004**

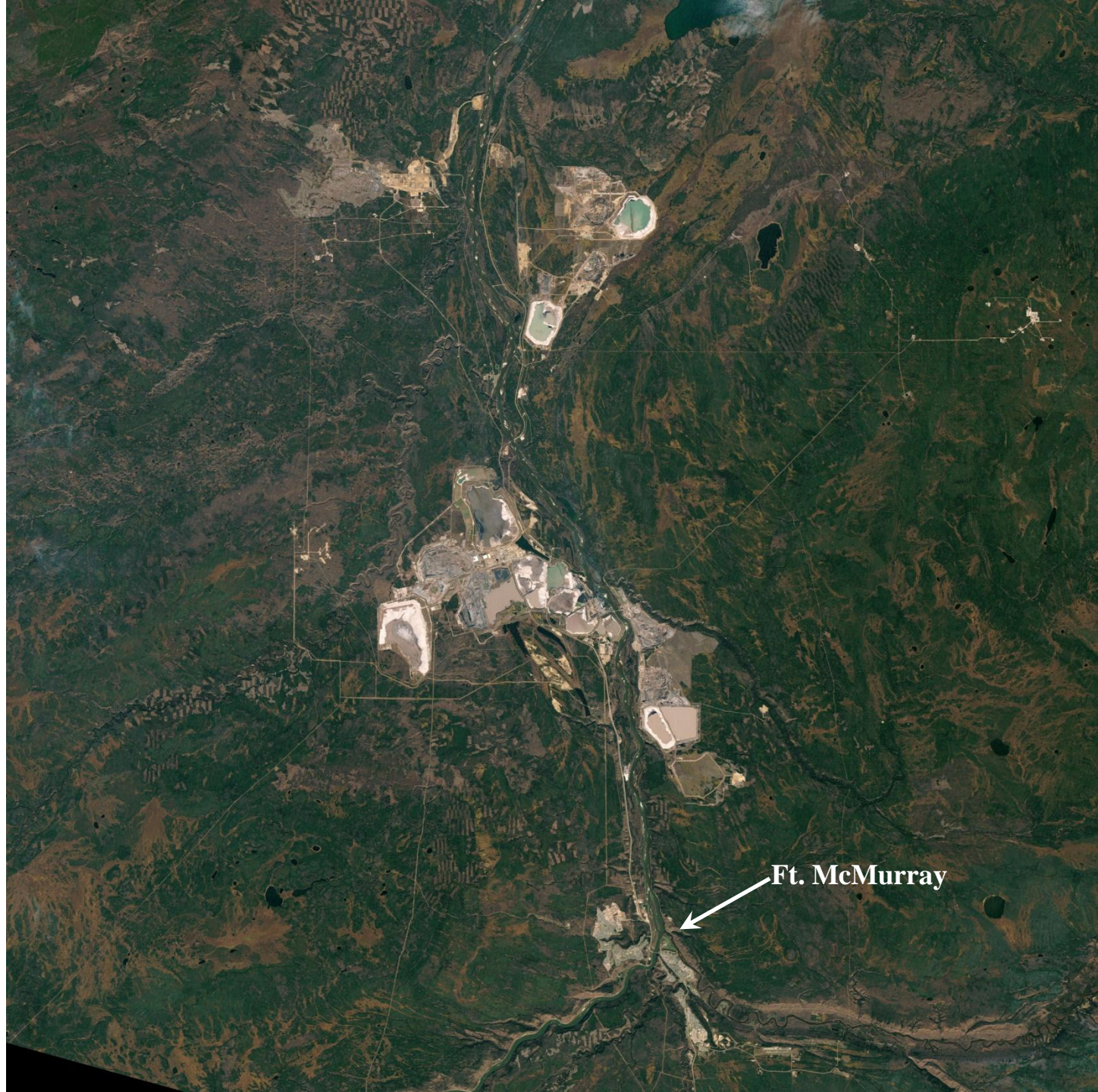
**1.0 Million  
Barrels per Day**





# **Oil Sands October 10, 2005**

**1.0 Million  
Barrels per Day**



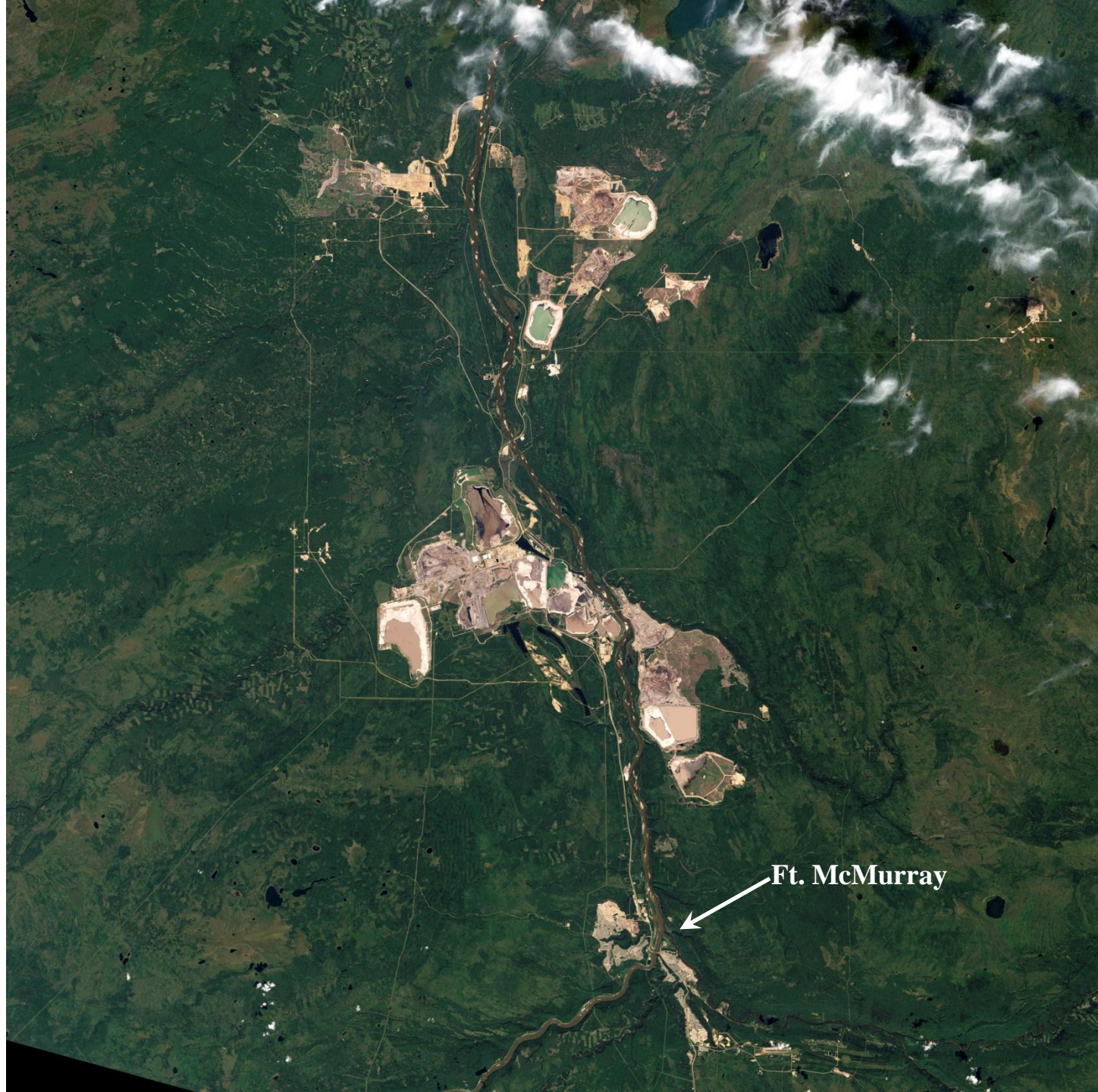
**Ft. McMurray**



# **Oil Sands**

**August 21, 2006**

**1.13 Million  
Barrels per Day**



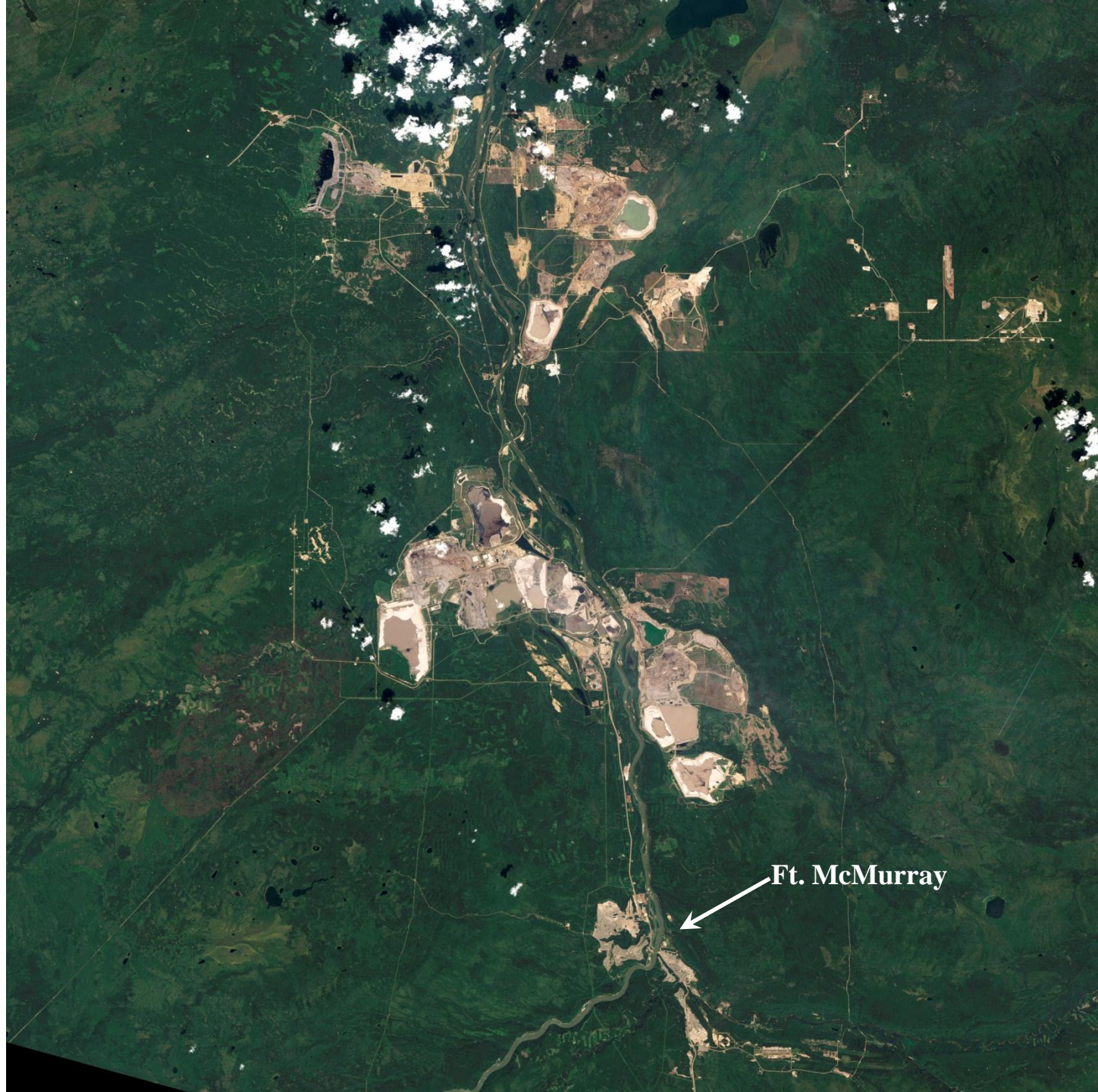
**Ft. McMurray**

A white arrow pointing from the text 'Ft. McMurray' to a specific location on the river in the lower right portion of the satellite image.



# **Oil Sands** **July 25, 2008**

**1.21 Million  
Barrels per Day**

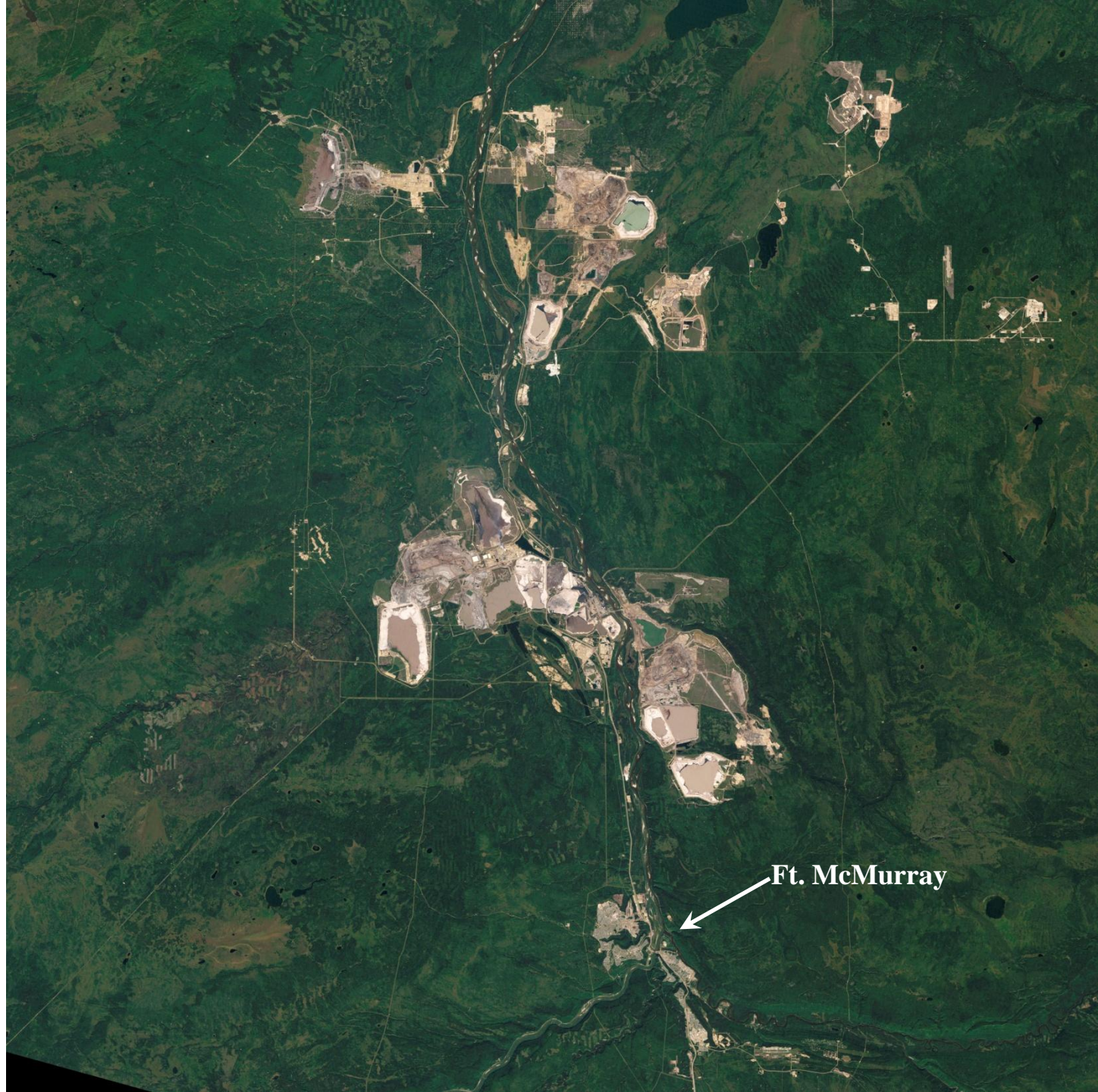


Ft. McMurray



# **Oil Sands Sept 9, 2009**

**1.33 Million  
Barrels per Day**

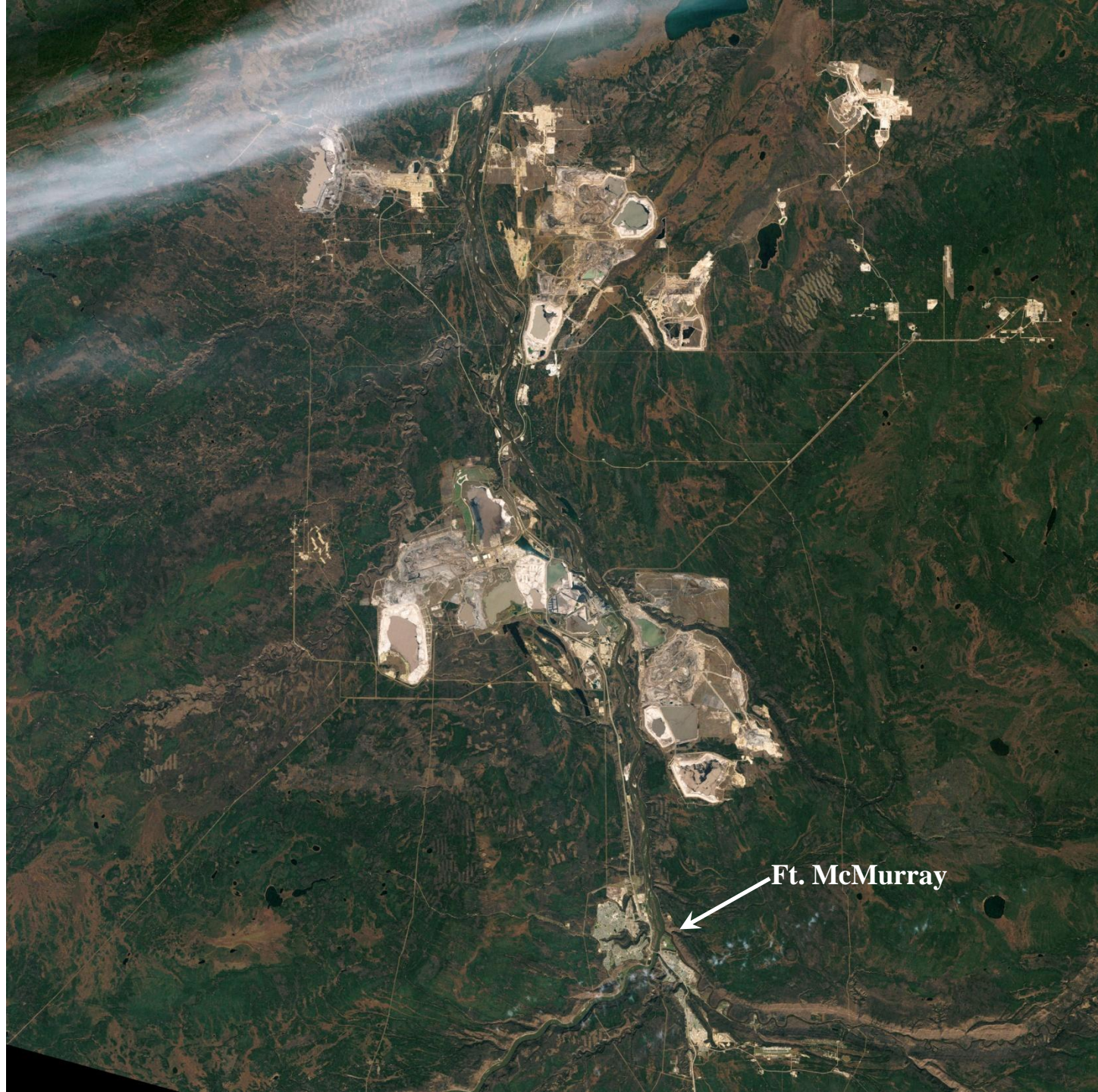


**Ft. McMurray**



# **Oil Sands October 3, 2010**

**1.46 Million  
Barrels per Day**

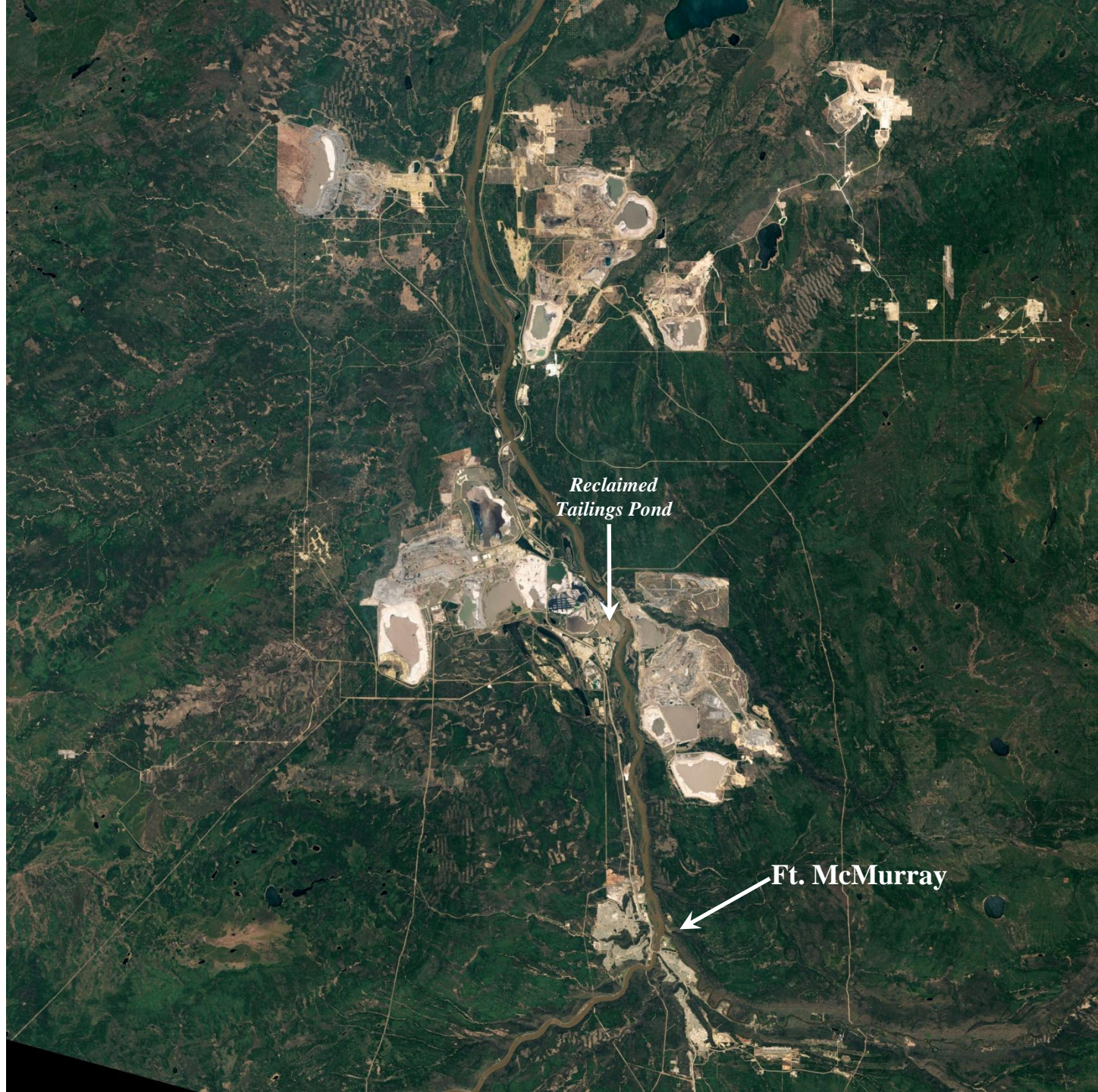


**Ft. McMurray**



# **Oil Sands** **May 15, 2011**

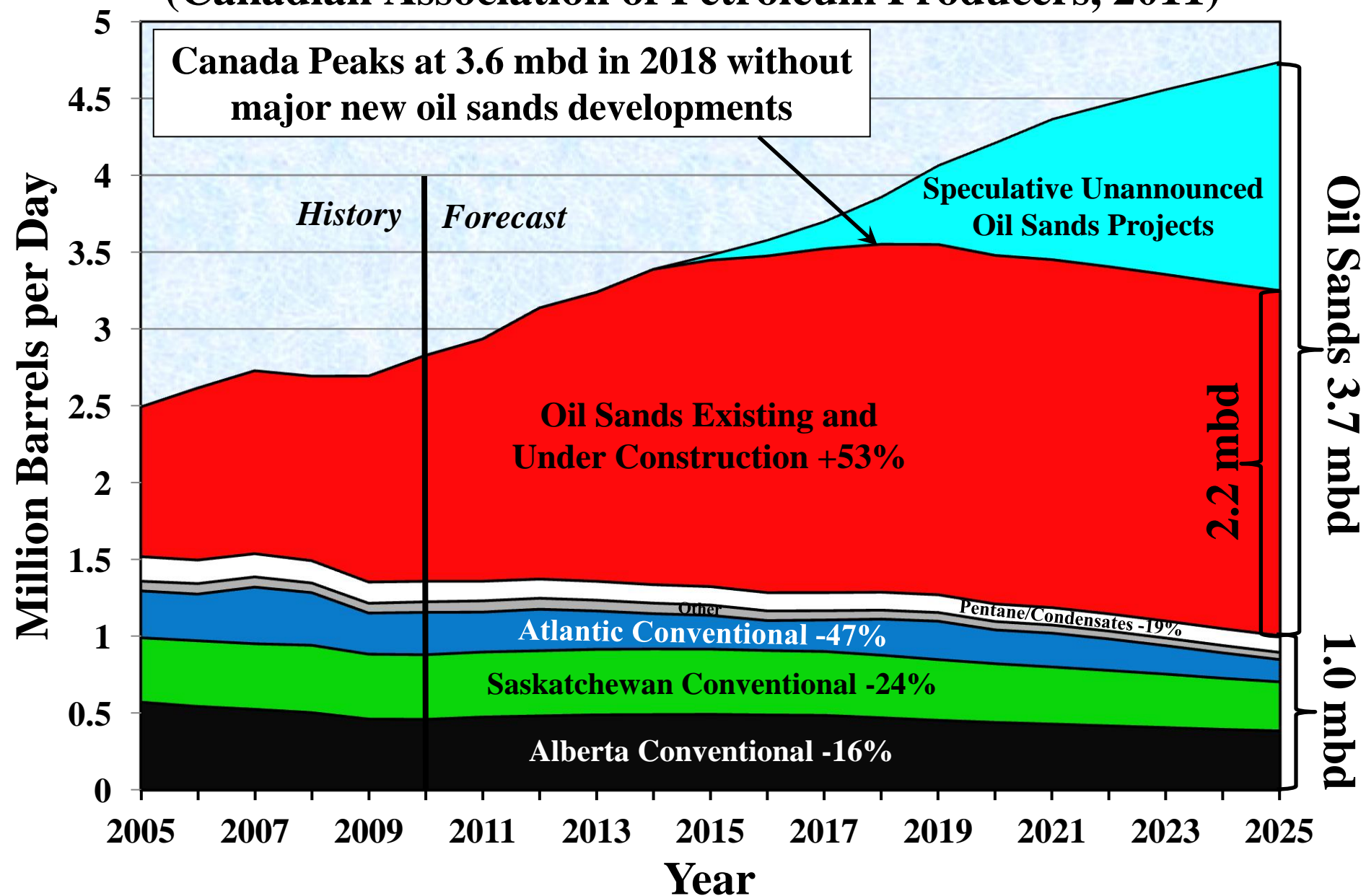
**1.59 Million  
Barrels per Day**  
*(estimate)*





# Canadian Oil Production Forecast through 2025

(Canadian Association of Petroleum Producers, 2011)





## **Epilogue**

**Oil Sands are the major source of growth for Canadian oil production by far**

**CAPP projects a 50% growth from existing projects “in construction” and a 150% growth including speculative unannounced projects through 2025**

**The Enbridge application for the Northern Gateway Pipeline to export bitumen to Asian markets via tanker from the B.C. coast projects a 215% growth in oil sands production by 2035**

**If these projections come to pass, the visual footprint of oil sands exploitation explored herein will be miniscule compared to what is in store**



**J. David Hughes**  
*davehughes@xplornet.com*