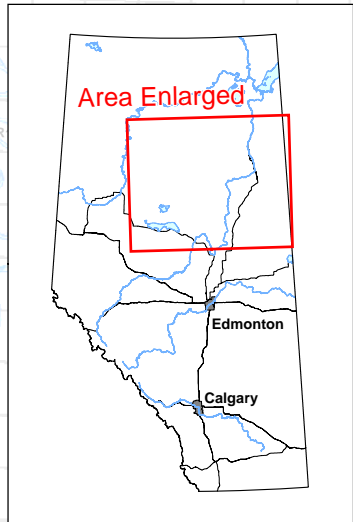


REF #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS	REF #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Upgraders				Cold Lake Oil Sands Area			
A	CNRL - Horizon	Upgrader	Operating	95	Baytex - Mann Lake East	Primary	Operating
B	Nexen - Long Lake	Upgrader	Operating	96	Baytex - Reita Lake III	Primary	Operating
C	Shell - Scotford	Upgrader	Operating	97	Black Pearl Resources - John Lake	Primary	Operating
D	Suncor - Base and Millennium	Upgrader	Operating	98	Bonavista Energy - Lindbergh Louis	Primary	Operating
E	Syncrude - Mildred Lake	Upgrader	Operating	99	Bonavista Energy - Passage Elk	Primary	Operating
F	North West Upgrading - Redwater	Upgrader	Construction	100	Bonavista Energy - Swimming	Primary	Operating
G	Suncor - Voyageur	Upgrader	Construction	101	Broadview Energy - Broadview 11619	Primary	Operating
H	Value Creation - Terre de Grace	Upgrader	Approved	102	Twin Butte Energy - Twin Butte Energy 11256	Primary	Operating
I	Ivanhoe - Tamarack	Upgrader	Application	103	CNRL - Ashmont	Primary	Operating
J	Value Creation - Advanced TriStar	Upgrader	Application	104	CNRL - Beartrap	Primary	Operating
K	Value Creation - Tristar	Upgrader	Application	105	CNRL - CNRL 11089	Primary	Operating
Athabasca Oil Sands Area				106	CNRL - CNRL 11428	Primary	Operating
1	E-T Energy - Poplar Creek OSFT2009	Experimental	Operating	107	CNRL - CNRL 11574	Primary	Operating
2	Laricina Energy - Saleski SAGD Pilot	Experimental	Operating	108	CNRL - East Fishing Lake	Primary	Operating
3	CNRL - Horizon	Mining	Operating	109	CNRL - Edward Lake	Primary	Operating
4	Shell - Jackpine Mine	Mining	Operating	110	CNRL - Elizabeth	Primary	Operating
5	Shell - Muskeg River Mine	Mining	Operating	111	CNRL - Elk Point	Primary	Operating
6	Suncor - Suncor Oil Sands	Mining	Operating	112	CNRL - Elk Point Project	Primary	Operating
7	Syncrude - Syncrude Mine	Mining	Operating	113	CNRL - Fire Tower	Primary	Operating
8	Cenovus - Pelican Lake III	Primary	Operating	114	CNRL - Fishing Lake	Primary	Operating
9	CNRL - Brintnell	Primary	Operating	115	CNRL - Frog Lake	Primary	Operating
10	CNRL - Cherpeta	Primary	Operating	116	CNRL - Ft. Kent	Primary	Operating
11	CNRL - South Brintnell	Primary	Operating	117	CNRL - John Lake	Primary	Operating
12	CNRL - South Wabasca	Primary	Operating	118	CNRL - Lindbergh North	Primary	Operating
13	CNRL - Wabasca North	Primary	Operating	119	CNRL - Lindbergh Primary	Primary	Operating
14	CNRL - Woodenhouse	Primary	Operating	120	CNRL - Marwayne	Primary	Operating
15	Husky - Amadou	Primary	Operating	121	CNRL - Moose Hills	Primary	Operating
16	Husky - McMullen Primary Heavy Oil	Primary	Operating	122	CNRL - North Murphy Lindbergh	Primary	Operating
17	Legacy O&G - Legacy O&G 9774	Primary	Operating	123	CNRL - Ranger Cold Lake	Primary	Operating
18	Sunshine Oilsands - Muskwa	Primary	Operating	124	CNRL - Reita Lake II	Primary	Operating
19	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating	125	CNRL - Seibert Lake	Primary	Operating
20	Cenovus - Christina Lake Thermal	Thermal	Operating	126	CNRL - South Lindbergh	Primary	Operating
21	Cenovus - Foster Creek	Thermal	Operating	127	CNRL - West Marwayne	Primary	Operating
22	Cenovus - Pelican Lake Grand Rapids	Thermal	Operating	128	Devon - East Tulabi John Lake	Primary	Operating
23	Connacher - Algar	Thermal	Operating	129	Devon - Iron River	Primary	Operating
24	Connacher - Great Divide	Thermal	Operating	130	Devon - Manatoka	Primary	Operating
25	Conoco Phillips - Surmont	Thermal	Operating	131	Devon - Mann North	Primary	Operating
26	Devon - Jackfish 1	Thermal	Operating	132	Devon - Tulabi/John Lake	Primary	Operating
27	Devon - Jackfish 2	Thermal	Operating	133	Devon - Devon 10310	Primary	Operating
28	JACOS - Hangingstone	Thermal	Operating	134	Harvest Operations - Lindbergh South	Primary	Operating
29	MEG Energy - Christina Lake Regional	Thermal	Operating	135	Husky - Husky 10259	Primary	Operating
30	Nexen - Long Lake	Thermal	Operating	136	Husky - Husky 10597	Primary	Operating
31	Southern Pacific - STP McKay SAGD	Thermal	Operating	137	Husky - Husky 10619	Primary	Operating
32	Statoil - Leismer Demonstration Project	Thermal	Operating	138	Husky - Husky 10812	Primary	Operating
33	Suncor - Firebag	Thermal	Operating	139	Husky - Husky 11041	Primary	Operating
34	Suncor - MacKay River	Thermal	Operating	140	Husky - Husky 11205	Primary	Operating
35	Sunshine Oilsands - Harper	Thermal	Operating	141	Husky - Husky 11287	Primary	Operating
36	Imperial Oil - Kearn	Mining	Construction	142	Husky - Husky 7990	Primary	Operating
37	Suncor - Fort Hills Oil Sands Project	Mining	Construction	143	Husky - Husky 8655	Primary	Operating
38	Total - Joslyn North Mine	Mining	Construction	144	Husky - Husky 9835	Primary	Operating
39	Athabasca Oil Sands - Hangingstone	Thermal	Construction	145	Husky - Husky 9873, 11822, 11541	Primary	Operating
40	Cenovus - Narrows Lake	Thermal	Construction	146	Long Run Exploration - Long Run Exploration 10631	Primary	Operating
41	CNRL - CNRL Kirby Commercial Project	Thermal	Construction	147	Solara - Solara 11429	Primary	Operating
42	Devon - Jackfish 3	Thermal	Construction	148	Twin Butte Energy - Frog Lake	Primary	Operating
43	Dover Operating Corp - MacKay River	Thermal	Construction	149	Twin Butte Energy - Twin Butte Energy 11191	Primary	Operating
44	Grizzly Oil Sands - Algar Lake	Thermal	Construction	150	CNRL - Burnt Lake	Thermal	Operating
45	Harvest Energy - BlackGold	Thermal	Construction	151	CNRL - Elk Point Crown Agreement	Thermal	Operating
46	Husky - McMullen Thermal Conduction Pilot	Thermal	Construction	152	CNRL - Lindbergh Crown Agreement	Thermal	Operating
47	Husky - Sunrise Thermal	Thermal	Construction	153	CNRL - Primrose	Thermal	Operating
48	Laricina Energy - Germain	Thermal	Construction	154	CNRL - Wolf Lake Crown Agreement	Thermal	Operating
49	N-Solv Corporation - Dover	Thermal	Construction	155	Husky - Tucker	Thermal	Operating
50	Statoil - Corner	Thermal	Construction	156	Imperial Oil - Cold Lake	Thermal	Operating
51	Sunshine Oilsands - West Ellis	Thermal	Construction	157	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
52	Cenovus - West Kirby	Thermal	Approved	158	Shell - Orion	Thermal	Operating
53	CNRL - Kirby Expansion (North)	Thermal	Approved	159	Husky - Caribou Lake	Thermal	Approved
54	Suncor - Meadow Creek	Thermal	Approved	160	Koch - Gemini	Thermal	Approved
55	Value Creation - Terre de Grace Pilot	Thermal	Approved	161	OSUM - Taiga	Thermal	Approved
56	Athabasca Oil Sands - Dover West Carbonates (Leduc)	Experimental	Application	162	Devon - Walleye	Thermal	Application
57	Oak Point Energy - Lewis SAGD Pilot	Experimental	Application	163	Birchwood Resources - Sage Thermal Pilot	Thermal	Announced
58	Shell - Pierre River	Mining	Application	Peace River Oil Sands Area			
59	Suncor - Voyageur South	Mining	Application	164	Baytex - Baytex 11327	Primary	Operating
60	Teck Resources - Frontier	Mining	Application	165	Baytex - Baytex 11437	Primary	Operating
61	Alberta Oil Sands - Clearwater West	Thermal	Application	166	Baytex - Reno	Primary	Operating
62	Athabasca Oil Sands - Dover West Sands & Classics	Thermal	Application	167	Baytex - Seal Bluesky	Primary	Operating
63	Black Pearl Resources - Blackrod Commercial	Thermal	Application	168	Baytex - West Harmon Valley Bluesky	Primary	Operating
64	Cavalier Energy Inc - Hoole	Thermal	Application	169	Husky - Cadotte Heavy Oil	Primary	Operating
65	Cenovus - Telephone Lake Borealis	Thermal	Application	170	Koch - Seal South	Primary	Operating
66	CNRL - Grouse	Thermal	Application	171	Murphy Oil - Cliffdale	Primary	Operating
67	Devon - Pike	Thermal	Application	172	Murphy Oil - Murphy Seal	Primary	Operating
68	Dover Operating Corp - Dover Commercial Project	Thermal	Application	173	Murphy Oil - Peace River	Primary	Operating
69	Grizzly Oil Sands - Thickwood	Thermal	Application	174	Penn West Petroleum - Harmon Valley	Primary	Operating
70	Ivanhoe Energy - Tamarack	Thermal	Application	175	Penn West Petroleum - Penn West 11099	Primary	Operating
71	Koch - Muskwa	Thermal	Application	176	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating
72	Marathon Oil Corporation - Birchwood	Thermal	Application	177	Penn West Petroleum - Seal Cadotte	Primary	Operating
73	MEG Energy - Surmont	Thermal	Application	178	Penn West Petroleum - Seal North	Primary	Operating
74	Petrobank - May River	Thermal	Application	179	Shell - Chipmunk	Primary	Operating
75	Statoil - Thornbury	Thermal	Application	180	Shell - Chipmunk II	Primary	Operating
76	Sunshine Oilsands - Legend Lake	Thermal	Application	181	Shell - Cliffdale	Primary	Operating
77	Sunshine Oilsands - Thickwood	Thermal	Application	182	Shell - Seal I	Primary	Operating
78	Summont Energy - Wildwood	Thermal	Application	183	Shell - Seal-Northern Cadotte Block	Primary	Operating
79	Value Creation - Advanced TriStar	Thermal	Application	184	Shell - Seal-Northern Cadotte Block II	Primary	Operating
80	Husky - Saleski Carbonate Pilot	Experimental	Announced	185	Shell - Shell 10746	Primary	Operating
81	Athabasca Oil Sands - Birch	Thermal	Announced	186	Baytex - Cliffdale	Thermal	Operating
82	Cenovus - East McMurray	Thermal	Announced	187	Murphy Oil - Seal Cadotte CSS	Thermal	Operating
83	Cenovus - Osprey Pilot Project	Thermal	Announced	188	Penn West Petroleum - Dawson Seal	Thermal	Operating
84	Cenovus - Steepbank	Thermal	Announced	189	Shell - Peace River	Thermal	Operating
85	Cenovus - Winefred Lake	Thermal	Announced	190	Shell - PRC 32 & 33	Thermal	Operating
86	CNRL - Birch Mountain	Thermal	Announced	191	Shell - SR 2000	Thermal	Operating
87	CNRL - Gregoire Lake	Thermal	Announced	192	Petrobank - Dawson	Thermal	Construction
88	Grizzly Oil Sands - May River	Thermal	Announced	193	Penn West Petroleum - Seal Main East	Primary	Approved
89	Imperial Oil - Aspen	Thermal	Announced	194	Andora - Sawn Lake	Thermal	Approved
90	OSUM - Sepiko Kesik	Thermal	Announced	195	Northern Alberta Oil - Sawn Lake	Thermal	Approved
91	SilverWillow Energy - Audet Pilot	Thermal	Announced	196	Baytex - Walrus	Primary	Application
92	Statoil - Hangingstone	Thermal	Announced	197	Murphy Oil - Cadotte Pilot	Thermal	Application
93	Suncor - Chard	Thermal	Announced	198	Shell - Carmon Creek	Thermal	Application
94	Suncor - Lewis	Thermal	Announced				





PEACE  
RIVER # 2

## Athabasca Oil Sands Projects and Upgraders

**DISCLAIMER:**  
This map excludes active projects with production of less than 1000 barrels of bitumen in the last six months.

Locations are approximate and may not represent the full extent of project areas. Leased Oil Sands Area information is shown to the nearest quarter section, and therefore may appear to include minerals not owned by the Alberta Crown and/or Minerals Reserved From Disposition.

The data represented was obtained from the source information listed and internal records as well as public announcements made at the time of publication and are subject to change; therefore the Government of Alberta assumes no responsibility for discrepancies at time of use.

**PROJECT STATUS DEFINITION:**  
**Operating:** Currently producing bitumen and/or oil sands product.  
**Construction:** On-site construction has commenced.  
**Approved:** Regulatory approvals required to operate have been received.  
**Application:** Application is being reviewed by the ERCB and/or AESRD.  
**Announced:** Operator has disclosed intent to construct project.

**SOURCE INFORMATION:**  
Projects & Upgraders Information:  
- Oil Sands Administration & Strategic Information System, Alberta Energy  
- Energy Resources Conservation Board - Integrated Application Registry  
- Alberta Oil Sands Industry - Quarterly Update (Fall 2012)  
- Oilsands Review & CanOils  
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)  
Leased Oil Sands Area: Alberta Energy (January 16, 2013)  
Oil Sands & Surface Mineable Areas: Energy Resources Conservation Board  
Base Data provided by Spatial Data Warehouse Ltd.

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Transverse Mercator Projection (10TM)  
North American Datum 1983 (NAD83)

Date: January 2013  
Author: Oil Sands Operations, Alberta Department of Energy (JA)  
Produced by: GIS Services, Alberta Department of Energy (JS)

### Project Status

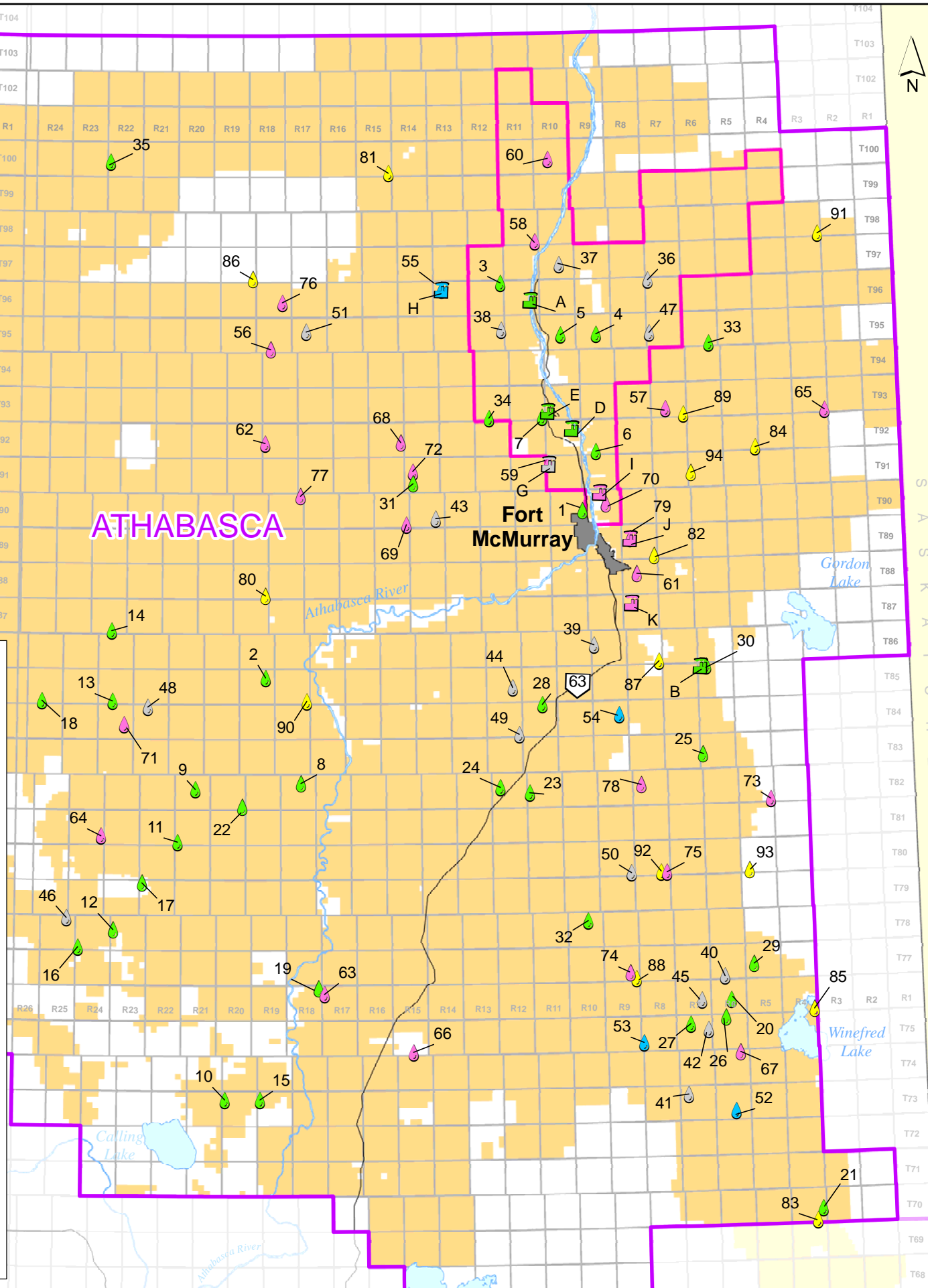
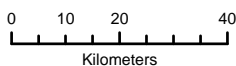
- Operating (35)
- Construction (16)
- Approved (4)
- Application (24)
- Announced (15)

### Upgrader Status

- Operating (4)
- Construction (1)
- Approved (1)
- Application (3)

### Other Information

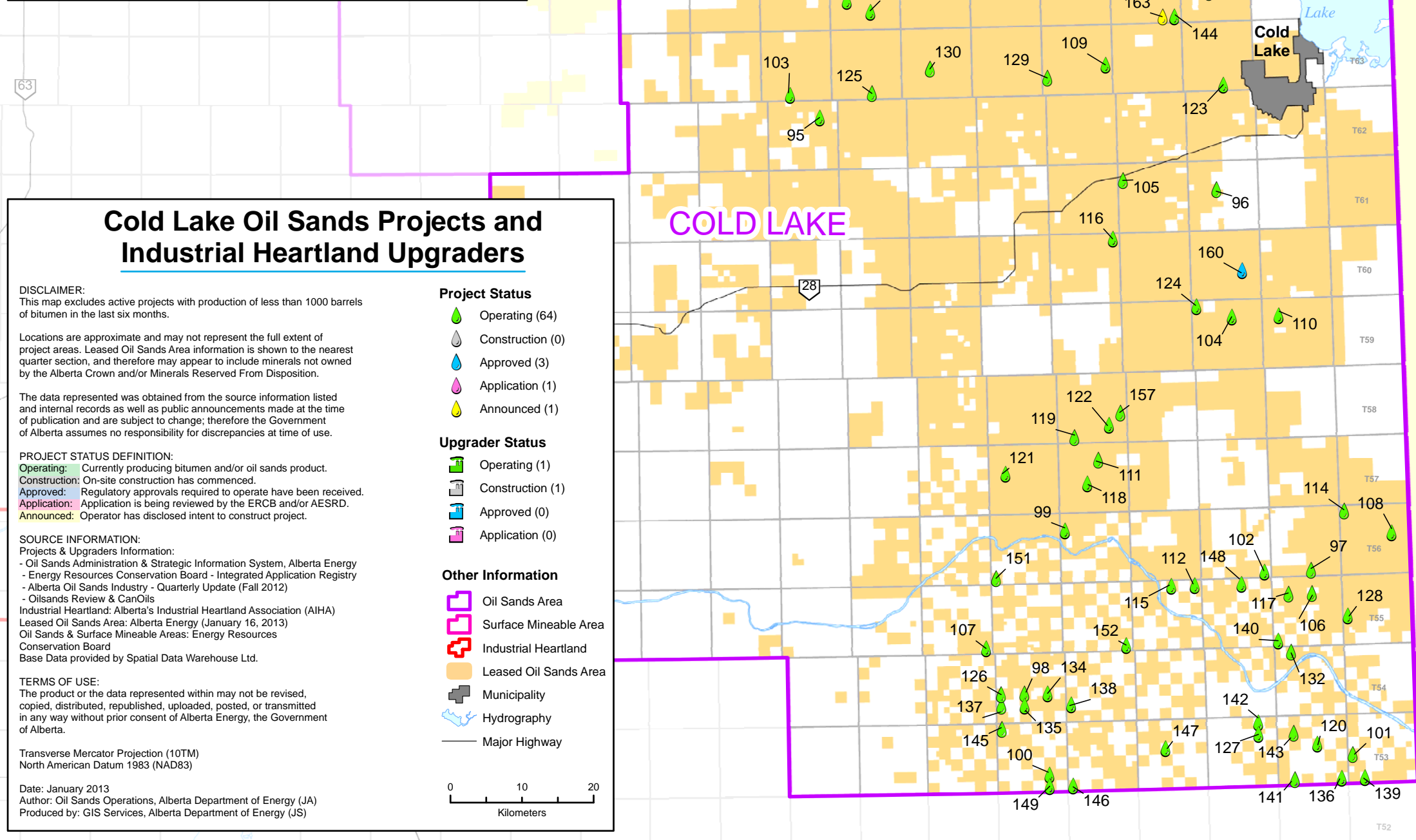
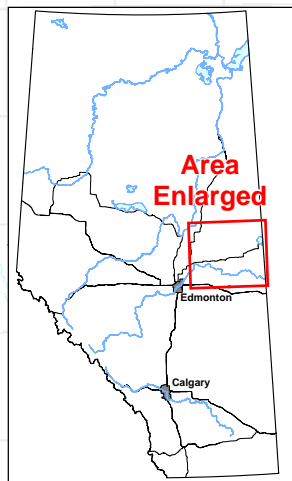
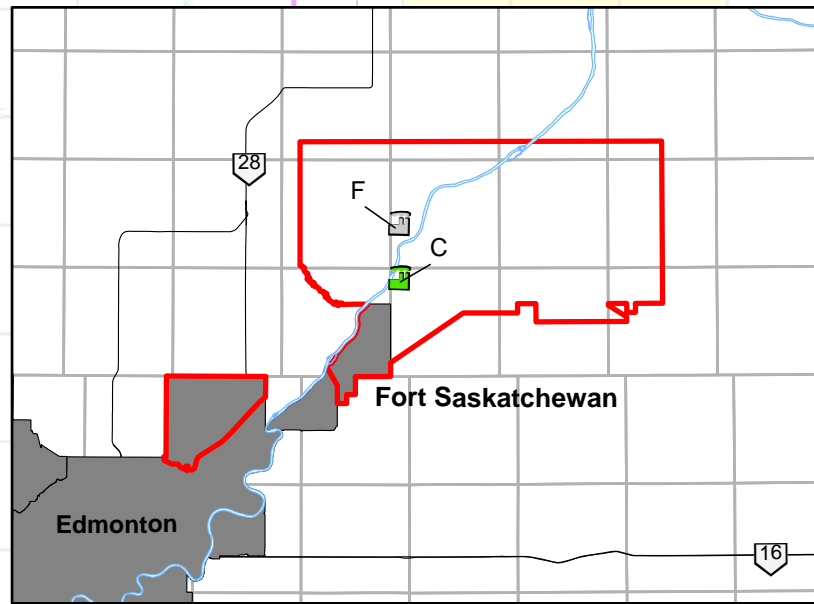
- Oil Sands Area
- Surface Mineable Area
- Industrial Heartland
- Leased Oil Sands Area
- Municipality
- Hydrography
- Major Highway



REF #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Upgraders			
A	CNRL - Horizon	Upgrader	Operating
B	Nexen - Long Lake	Upgrader	Operating
D	Suncor - Base and Millennium	Upgrader	Operating
E	Syncrude - Mildred Lake	Upgrader	Operating
G	Suncor - Voyageur	Upgrader	Construction
H	Value Creation - Terre de Grace	Upgrader	Approved
I	Ivanhoe - Tamarack	Upgrader	Application
J	Value Creation - Advanced TriStar	Upgrader	Application
K	Value Creation - Tristar	Upgrader	Application
Athabasca Oil Sands Area			
1	E-T Energy - Poplar Creek OSFT2009	Experimental	Operating
2	Laricina Energy - Saleski SAGD Pilot	Experimental	Operating
3	CNRL - Horizon	Mining	Operating
4	Shell - Jackpine Mine	Mining	Operating
5	Shell - Muskeg River Mine	Mining	Operating
6	Suncor - Suncor Oil Sands	Mining	Operating
7	Syncrude - Syncrude Mine	Mining	Operating
8	Cenovus - Pelican Lake III	Primary	Operating
9	CNRL - Brintnell	Primary	Operating
10	CNRL - Cherpeta	Primary	Operating
11	CNRL - South Brintnell	Primary	Operating
12	CNRL - South Wabasca	Primary	Operating
13	CNRL - Wabasca North	Primary	Operating
14	CNRL - Woodenhouse	Primary	Operating
15	Husky - Amadou	Primary	Operating
16	Husky - McMullen Primary Heavy Oil	Primary	Operating
17	Legacy O&G - Legacy O&G 9774	Primary	Operating
18	Sunshine Oilsands - Muskwa	Primary	Operating
19	Black Pearl Resources - Blackrod SAGD Pilot	Thermal	Operating
20	Cenovus - Christina Lake Thermal	Thermal	Operating
21	Cenovus - Foster Creek	Thermal	Operating
22	Cenovus - Pelican Lake Grand Rapids	Thermal	Operating
23	Connacher - Algar	Thermal	Operating
24	Connacher - Great Divide	Thermal	Operating
25	Conoco Phillips - Surmont	Thermal	Operating
26	Devon - Jackfish 1	Thermal	Operating
27	Devon - Jackfish 2	Thermal	Operating
28	JACOS - Hangingstone	Thermal	Operating
29	MEG Energy - Christina Lake Regional	Thermal	Operating
30	Nexen - Long Lake	Thermal	Operating
31	Southern Pacific - STP McKay SAGD	Thermal	Operating
32	Statoil - Leismer Demonstration Project	Thermal	Operating
33	Suncor - Firebag	Thermal	Operating
34	Suncor - MacKay River	Thermal	Operating
35	Sunshine Oilsands - Harper	Thermal	Operating
36	Imperial Oil - Kearn	Mining	Construction
37	Suncor - Fort Hills Oil Sands Project	Mining	Construction
38	Total - Joslyn North Mine	Mining	Construction
39	Athabasca Oil Sands - Hangingstone	Thermal	Construction
40	Cenovus - Narrows Lake	Thermal	Construction
41	CNRL - CNRL Kirby Commercial Project	Thermal	Construction
42	Devon - Jackfish 3	Thermal	Construction
43	Dover Operating Corp - MacKay River	Thermal	Construction
44	Grizzly Oil Sands - Algar Lake	Thermal	Construction
45	Harvest Energy - BlackGold	Thermal	Construction
46	Husky - McMullen Thermal Conduction Pilot	Thermal	Construction
47	Husky - Sunrise Thermal	Thermal	Construction
48	Laricina Energy - Germain	Thermal	Construction
49	N-Solv Corporation - Dover	Thermal	Construction
50	Statoil - Corner	Thermal	Construction
51	Sunshine Oilsands - West Ellis	Thermal	Construction
52	Cenovus - West Kirby	Thermal	Approved
53	CNRL - Kirby Expansion (North)	Thermal	Approved
54	Suncor - Meadow Creek	Thermal	Approved
55	Value Creation - Terre de Grace Pilot	Thermal	Approved
56	Athabasca Oil Sands - Dover West Carbonates (Leduc)	Experimental	Application
57	Oak Point Energy - Lewis SAGD Pilot	Experimental	Application
58	Shell - Pierre River	Mining	Application
59	Suncor - Voyageur South	Mining	Application
60	Tec Resources - Frontier	Mining	Application
61	Alberta Oil Sands - Clearwater West	Thermal	Application
62	Athabasca Oil Sands - Dover West Sands & Clastics	Thermal	Application
63	Black Pearl Resources - Blackrod Commercial	Thermal	Application
64	Cavalier Energy Inc - Hoole	Thermal	Application
65	Cenovus - Telephone Lake Borealis	Thermal	Application
66	CNRL - Grouse	Thermal	Application
67	Devon - Pike	Thermal	Application
68	Dover Operating Corp - Dover Commercial Project	Thermal	Application
69	Grizzly Oil Sands - Thickwood	Thermal	Application
70	Ivanhoe Energy - Tamarack	Thermal	Application
71	Koch - Muskwa	Thermal	Application
72	Marathon Oil Corporation - Birchwood	Thermal	Application
73	MEG Energy - Surmont	Thermal	Application
74	Petrobank - May River	Thermal	Application
75	Statoil - Thornbury	Thermal	Application
76	Sunshine Oilsands - Legend Lake	Thermal	Application
77	Sunshine Oilsands - Thickwood	Thermal	Application
78	Surmont Energy - Wildwood	Thermal	Application
79	Value Creation - Advanced TriStar	Thermal	Application
80	Husky - Saleski Carbonate Pilot	Experimental	Announced
81	Athabasca Oil Sands - Birch	Thermal	Announced
82	Cenovus - East McMurray	Thermal	Announced
83	Cenovus - Osprey Pilot Project	Thermal	Announced
84	Cenovus - Steepbank	Thermal	Announced
85	Cenovus - Winefred Lake	Thermal	Announced
86	CNRL - Birch Mountain	Thermal	Announced
87	CNRL - Gregoire Lake	Thermal	Announced
88	Grizzly Oil Sands - May River	Thermal	Announced
89	Imperial Oil - Aspen	Thermal	Announced
90	OSUM - Sepiko Kesik	Thermal	Announced
91	SilverWillow Energy - Audet Pilot	Thermal	Announced
92	Statoil - Hangingstone	Thermal	Announced
93	Suncor - Chard	Thermal	Announced
94	Suncor - Lewis	Thermal	Announced

Notes:  
**Primary/EOR** - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.  
**Thermal** - These projects apply thermal energy (usually steam) in situ to produce bitumen.  
**Mining** - These projects utilize open pit mining methods to remove bituminous ore, which is subsequently processed to recover bitumen.  
**Experimental** - These projects operate on a (non-commercial) pilot scale and use innovative methods to recover bitumen.





REF #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Upgraders			
C	Shell - Scotford	Upgrader	Operating
F	North West Upgrading - Redwater	Upgrader	Construction
Cold Lake Oil Sands Area			
95	Baytex - Mann Lake East	Primary	Operating
96	Baytex - Reita Lake III	Primary	Operating
97	Black Pearl Resources - John Lake	Primary	Operating
98	Bonavista Energy - Lindbergh Louis	Primary	Operating
99	Bonavista Energy - Passage Elk	Primary	Operating
100	Bonavista Energy - Swimming	Primary	Operating
101	Broadview Energy - Broadview 11619	Primary	Operating
102	Twin Butte Energy - Twin Butte Energy 11256	Primary	Operating
103	CNRL - Ashmont	Primary	Operating
104	CNRL - Beartrap	Primary	Operating
105	CNRL - CNRL 11089	Primary	Operating
106	CNRL - CNRL 11428	Primary	Operating
107	CNRL - CNRL 11574	Primary	Operating
108	CNRL - East Fishing Lake	Primary	Operating
109	CNRL - Edward Lake	Primary	Operating
110	CNRL - Elizabeth	Primary	Operating
111	CNRL - Elk Point	Primary	Operating
112	CNRL - Elk Point Project	Primary	Operating
113	CNRL - Fire Tower	Primary	Operating
114	CNRL - Fishing Lake	Primary	Operating
115	CNRL - Frog Lake	Primary	Operating
116	CNRL - Ft. Kent	Primary	Operating
117	CNRL - John Lake	Primary	Operating
118	CNRL - Lindbergh North	Primary	Operating
119	CNRL - Lindbergh Primary	Primary	Operating
120	CNRL - Marwayne	Primary	Operating
121	CNRL - Moose Hills	Primary	Operating
122	CNRL - North Murphy Lindbergh	Primary	Operating
123	CNRL - Ranger Cold Lake	Primary	Operating
124	CNRL - Reita Lake II	Primary	Operating
125	CNRL - Seibert Lake	Primary	Operating
126	CNRL - South Lindbergh	Primary	Operating
127	CNRL - West Marwayne	Primary	Operating
128	Devon - East Tulabi John Lake	Primary	Operating
129	Devon - Iron River	Primary	Operating
130	Devon - Manatokan	Primary	Operating
131	Devon - Mann North	Primary	Operating
132	Devon - Tulabi/John Lake	Primary	Operating
133	Devon - Devon 10310	Primary	Operating
134	Harvest Operations - Lindbergh South	Primary	Operating
135	Husky - Husky 10259	Primary	Operating
136	Husky - Husky 10597	Primary	Operating
137	Husky - Husky 10619	Primary	Operating
138	Husky - Husky 10812	Primary	Operating
139	Husky - Husky 11041	Primary	Operating
140	Husky - Husky 11205	Primary	Operating
141	Husky - Husky 11287	Primary	Operating
142	Husky - Husky 7990	Primary	Operating
143	Husky - Husky 8655	Primary	Operating
144	Husky - Husky 9835	Primary	Operating
145	Husky - Husky 9873,11822, 11541	Primary	Operating
146	Long Run Exploration - Long Run Exploration 10631	Primary	Operating
147	Solara - Solara 11429	Primary	Operating
148	Twin Butte Energy - Frog Lake	Primary	Operating
149	Twin Butte Energy - Twin Butte Energy 11191	Primary	Operating
150	CNRL - Burnt Lake	Thermal	Operating
151	CNRL - Elk Point Crown Agreement	Thermal	Operating
152	CNRL - Lindbergh Crown Agreement	Thermal	Operating
153	CNRL - Primrose	Thermal	Operating
154	CNRL - Wolf Lake Crown Agreement	Thermal	Operating
155	Husky - Tucker	Thermal	Operating
156	Imperial Oil - Cold Lake	Thermal	Operating
157	Pengrowth - Lindbergh SAGD Pilot	Thermal	Operating
158	Shell - Orion	Thermal	Operating
159	Husky - Caribou Lake	Thermal	Approved
160	Koch - Gemini	Thermal	Approved
161	OSUM - Taiga	Thermal	Approved
162	Devon - Walleye	Thermal	Application
163	Birchwood Resources - Sage Thermal Pilot	Thermal	Announced

Notes:

**Primary/EOR** - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.

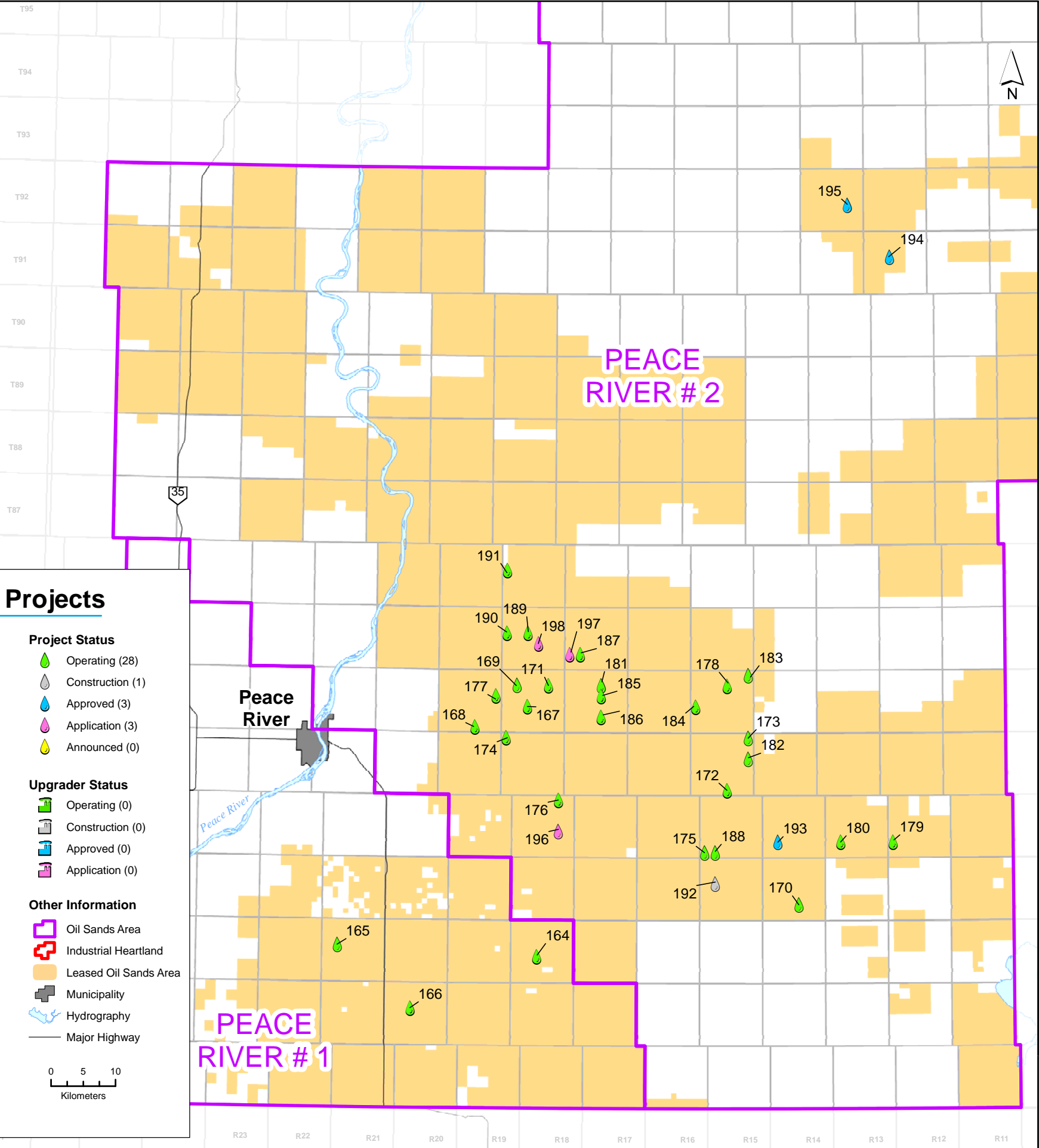
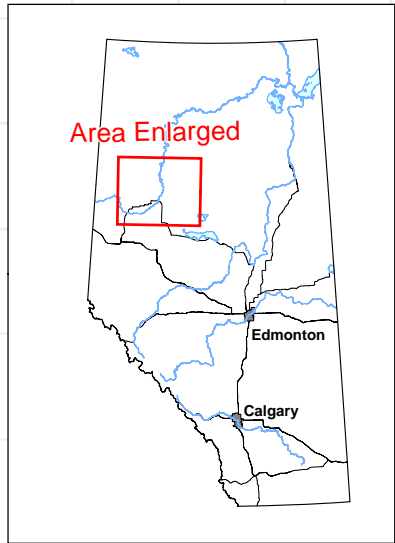
**Thermal** - These projects apply thermal energy (usually steam) in situ to produce bitumen.

**Mining** - These projects utilize open pit mining methods to remove bituminous ore, which is subsequently processed to recover bitumen.

**Experimental** - These projects operate on a (non-commercial) pilot scale and use innovative methods to recover bitumen.







## Peace River Oil Sands Projects

**DISCLAIMER:**  
This map excludes active projects with production of less than 1000 barrels of bitumen in the last six months.

Locations are approximate and may not represent the full extent of project areas. Leased Oil Sands Area information is shown to the nearest quarter section, and therefore may appear to include minerals not owned by the Alberta Crown and/or Minerals Reserved From Disposition.

The data represented was obtained from the source information listed and internal records as well as public announcements made at the time of publication and are subject to change; therefore the Government of Alberta assumes no responsibility for discrepancies at time of use.

### PROJECT STATUS DEFINITION:

**Operating:** Currently producing bitumen and/or oil sands product.  
**Construction:** On-site construction has commenced.  
**Approved:** Regulatory approvals required to operate have been received.  
**Application:** Application is being reviewed by the ERCB and/or AESRD.  
**Announced:** Operator has disclosed intent to construct project.

### SOURCE INFORMATION:

Projects & Upgraders Information:  
- Oil Sands Administration & Strategic Information System, Alberta Energy  
- Energy Resources Conservation Board - Integrated Application Registry  
- Alberta Oil Sands Industry - Quarterly Update (Fall 2012)  
- Oilsands Review & CanOils  
Industrial Heartland: Alberta's Industrial Heartland Association (AIHA)  
Leased Oil Sands Area: Alberta Energy (January 16, 2013)  
Oil Sands & Surface Mineable Areas: Energy Resources Conservation Board  
Base Data provided by Spatial Data Warehouse Ltd.

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Transverse Mercator Projection (10TM)  
North American Datum 1983 (NAD83)

Date: January 2013  
Author: Oil Sands Operations, Alberta Department of Energy (JA)  
Produced by: GIS Services, Alberta Department of Energy (JS)

### Project Status

- Operating (28)
- Construction (1)
- Approved (3)
- Application (3)
- Announced (0)

### Upgrader Status

- Operating (0)
- Construction (0)
- Approved (0)
- Application (0)

### Other Information

- Oil Sands Area
- Industrial Heartland
- Leased Oil Sands Area
- Municipality
- Hydrography
- Major Highway

0 5 10  
Kilometers

REF #	OPERATOR - PROJECT NAME	PROJECT TYPE	STATUS
Peace River Oil Sands Area			
164	Baytex - Baytex 11327	Primary	Operating
165	Baytex - Baytex 11437	Primary	Operating
166	Baytex - Reno	Primary	Operating
167	Baytex - Seal Bluesky	Primary	Operating
168	Baytex - West Harmon Valley Bluesky	Primary	Operating
169	Husky - Cadotte Heavy Oil	Primary	Operating
170	Koch - Seal South	Primary	Operating
171	Murphy Oil - Cliffdale	Primary	Operating
172	Murphy Oil - Murphy Seal	Primary	Operating
173	Murphy Oil - Peace River	Primary	Operating
174	Penn West Petroleum - Harmon Valley	Primary	Operating
175	Penn West Petroleum - Penn West 11099	Primary	Operating
176	Penn West Petroleum - Seal Harmon Valley South	Primary	Operating
177	Penn West Petroleum - Seal Cadotte	Primary	Operating
178	Penn West Petroleum - Seal North	Primary	Operating
179	Shell - Chipmunk	Primary	Operating
180	Shell - Chipmunk II	Primary	Operating
181	Shell - Cliffdale	Primary	Operating
182	Shell - Seal I	Primary	Operating
183	Shell - Seal-Northern Cadotte Block	Primary	Operating
184	Shell - Seal-Northern Cadotte Block II	Primary	Operating
185	Shell - Seal 10746	Primary	Operating
186	Baytex - Cliffdale	Thermal	Operating
187	Murphy Oil - Seal Cadotte CSS	Thermal	Operating
188	Penn West Petroleum - Dawson Seal	Thermal	Operating
189	Shell - Peace River	Thermal	Operating
190	Shell - PRC 32 & 33	Thermal	Operating
191	Shell - SR 2000	Thermal	Operating
192	Petrobank - Dawson	Thermal	Construction
193	Penn West Petroleum - Seal Main East	Primary	Approved
194	Andora - Sawn Lake	Thermal	Approved
195	Northern Alberta Oil - Sawn Lake	Thermal	Approved
196	Baytex - Walrus	Primary	Application
197	Murphy Oil - Cadotte Pilot	Thermal	Application
198	Shell - Carmon Creek	Thermal	Application

**Notes:**  
**Primary/EOR** - These projects utilize the natural energy available in the reservoirs (in some cases supplemented by non-thermal EOR processes) to produce bitumen.  
**Thermal** - These projects apply thermal energy (usually steam) in situ to produce bitumen.  
**Mining** - These projects utilize open pit mining methods to remove bituminous ore, which is subsequently processed to recover bitumen.  
**Experimental** - These projects operate on a (non-commercial) pilot scale and use innovative methods to recover bitumen.

