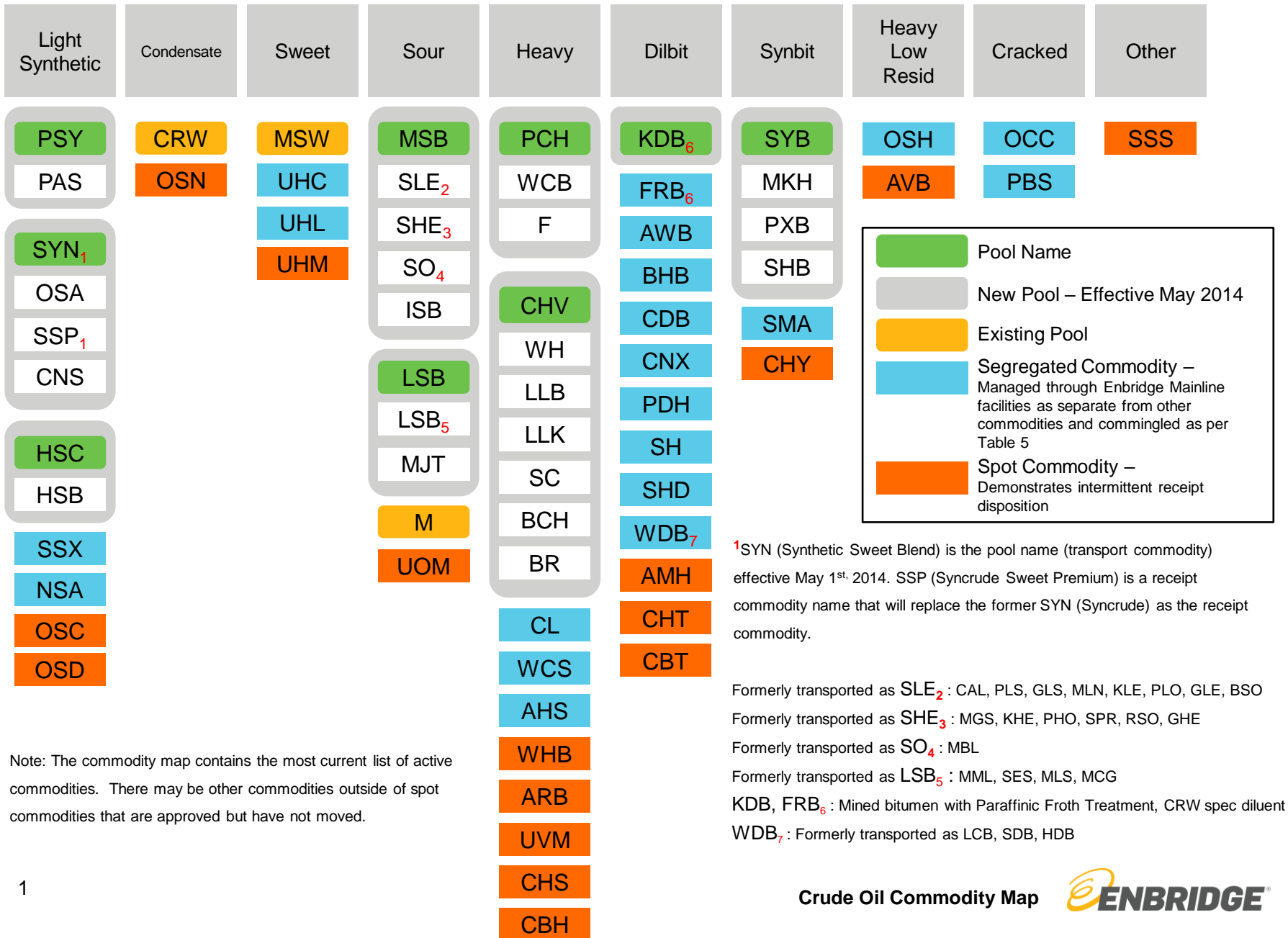


Crude Oil Commodity Map (Effective November 1, 2020)



Note: The commodity map contains the most current list of active commodities. There may be other commodities outside of spot commodities that are approved but have not moved.

Crude Oil Commodity Management Reference

Definitions

Pool: An aggregate of specific receipt commodities.

Segregated Commodity: Commodity that is managed through Enbridge mainline facilities as separate from other commodities and commingled as per Table 5 (Now identified as Appendix 1, "Throughput and Quality Management" found in Enbridge Liquids Pipeline Mainline Service Levels).

Spot Commodity: Demonstrates intermittent receipt disposition.

First Commingling Point: The first point at which a minimum of two components to a specific pool combine using common receipt and/or breakout tanks. Upon custody transfer to Enbridge, each component to an individual pool moves from its receipt ID to its transport ID. Individual components to a specific pool may be combined, in any ratio, prior to the defined first point of commingling under specific operational circumstances where Enbridge at its sole discretion deems it necessary for the safe or efficient operation of the system.

| Pool Name | First Commingling Point |
|----------------------------------|-------------------------|
| Premium Synthetic (PSY) | Edmonton (EP) |
| Synthetic Sweet Blend (SYN)** | Edmonton (EP) |
| Hardisty Synthetic Crude (HSC) | Hardisty (YP) |
| Canadian Blended Heavy (CBH) | Hardisty (YP) |
| Canadian Blended Dilbit (CBT) | Hardisty (YP) |
| Canadian Heavy Sweet (CHS) | Hardisty (YP) |
| Canadian Heavy Dilbit (CHT) | Hardisty (YP) |
| Condensate Blend (CRW)* | Edmonton (EP) |
| Mixed Sweet Blend (MSW)* | Edmonton (EP) |
| Medium Sour Blend (MSB)* | Edmonton (EP) |
| Light Sour Blend (LSB)* | Cromer (CM) |
| Midale (M)* | Cromer (CM) |
| Premium Conventional Heavy (PCH) | Superior (PR) |
| Conventional Heavy (CHV) | Superior (PR) |
| Synbit Blend (SYB) | Edmonton (EP) |

* Equalized Pools

** SYN (Synthetic Sweet Blend) is the pool name (transport commodity) effective May 1st, 2014. SSP (Syncrude Sweet Premium) is a receipt commodity name that will replace the former SYN (Syncrude) as the receipt commodity.

Crude Oil Commodity Management

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|--------------------------------|--|---|
| Light Synthetic | Pool | Premium Synthetic (PSY) | Premium Albian Synthetic (PAS) |
| | | Synthetic Sweet Blend (SYN) | Suncor A (OSA) CNRL Light Sweet Synthetic Blend (CNS) |
| | | | Syncrude Sweet Premium (SSP) |
| | Hardisty Synthetic Crude (HSC) | Long Lake Light Synthetic Blend (PSC) Husky Synthetic Blend (HSB) | |
| | Segregated | Shell Synthetic Light (SSX) Newgrade Synthetic Blend A (NSA) | Shell Synthetic Light (SSX) Newgrade Synthetic Blend A (NSA) |
| | Spot | Suncor C (OSC) | Suncor C (OSC) |
| | | Suncor C (OSD) | Suncor C (OSD) |

SYN (Synthetic Sweet Blend) is the pool name (transport commodity) effective May 1st, 2014. SSP (Syncrude Sweet Premium) is a receipt commodity name that will replace the former SYN (Syncrude) as the receipt commodity.

Currently Inactive

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|--------------------------|---|
| Condensate | Pool | Condensate Blend (CRW) | Pembina Condensate (CPM) Southern Lights Diluent (SLD) Fort Saskatchewan Condensate (CFT) Gibson Condensate (CGB) Condensate Gibsons Light Density (CGL) Plains Marketing Condensate (CLN) Kinder Morgan Condensate Blend (KRW) Pembina Nexus Condensate (CPN) Peace Pipe Condensate (CPR) Rangeland Condensate (CRL) Amoco Condensate (CAM) Rainbow Condensate (CRB) Rimbey Condensate (CRM) Petrocanada Condensate (CPC) Suncor N (OSN) Federated Condensate (CFD) Gibson Condensate Hardisty (CGY) Gibsons Condensate Blend (GRW) |
| | Spot | Suncor N (OSN) | Suncor N (OSN) |
| | Currently Inactive | | |

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|--|---|
| Sweet | Pool | Mixed Sweet Blend (MSW) | Pembina (P) Gibson Light (MGL) Joarcam (MLN) Kinder Morgan Sweet (KSW) Pembina Sweet Blend (PSB) Peace Pipe Light (MPR) Rangeland Sweet (RSW) Redwater (RW) Rainbow Light (RA) Federated (FD) HCT Sweet Blend (HSW) Gibsons Mixed Blend Sweet (GSW) Light Smiley (MSY) Secure Sask Light (MSE) Manitoba Sweet Tundra (MST) Plains Sweet Regina (PSR) BP SW (SWB) Central Alberta Sweet (CSW) |
| | Segregated | U.S. Sweet- Clearbrook (UHC) U.S. Sweet- Lewiston (UHL) | U.S. Sweet- Clearbrook (UHC) U.S. Sweet- Lewiston (UHL) |
| | Spot | U.S Sweet Mokena (UHM) | U.S Sweet Mokena (UHM) |
| | Currently Inactive | | |

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|---|---|--|
| Sour | Pool | Medium Sour Blend (MSB) | Central Alberta Pipeline (CAL 1) Pembina Light Sour (PLS 1) Gibsons Light Sour (GLS 1) Joarcam (MLN 1) Kinder Morgan Low Sour (KLE 1) Pembina Low Sour (PLO 1) Gibsons Low Sour (GLE 1) BP Sour Blend (BSO 1) |
| | | | Gibson Sour (MGS 2) Imperial Sour Blend (ISB 2) Kinder Morgan High Sour (KHE 2) Pembina High Sour (PHO 2) Peace Pipe Sour (SPR 2) Rangeland Sour (RSO 2) Gibsons High Sour (GHE 2) |
| | | | Hardisty Light (MBL 3) |
| | | Light Sour Blend (LSB) | Manitoba Light (MML) South East Sask (SES) Tundra Light Sour (MLS) ICG Light Sour (MCG) Moose Jaw Tops (MJT) |
| | Midale (M) | Manitoba Medium (MM 4) Wespur Midale (MSM 4) | |
| Spot | U.S Mokena Sour (UOM) | U.S Mokena Sour (UOM) | |
| | Formerly transported as Edmonton Light Sour (SLE) 1 | | |
| | Formerly transported as High Sulphur Sour (SHE) 2 | | |
| | Formerly transported as Hardisty Sour (SO) 3 | | |
| | Effective July 1, 2015 Midale transported as segregated commodity | | |

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|---|---|
| Heavy | Pool | Premium Conventional Heavy (PCH) | Western Canadian Blend (WCB) Fosterton (F) |
| | | Conventional Heavy (CHV) | Wabasca Heavy (WH) Lloydminster Hardisty (LLB) Lloydminster Kerrobert (LLK) Smiley Coleville (SC) BP Conventional Heavy Blend (BCH) Bow River (BR) |
| | Segregated | Cold Lake (CL) Albian Heavy Synthetic (AHS) Western Canadian Select (WCS) | Cold Lake (CL) Albian Heavy Synthetic (AHS) Western Canadian Select (WCS) |
| | Spot | U.S Mokena Heavy (UVM) Western Heavy Blend (WHB) Canadian Heavy Sweet (CHS) Canadian Blended Heavy (CBH) | U.S Mokena Heavy (UVM) Western Heavy Blend (WHB) Canadian Heavy Sweet (CHS) Canadian Blended Heavy (CBH) |

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|---|--|
| Dilbit | Pool | Kearl Lake Dilbit (KDB)* | Kearl Lake Dilbit (KDB) |
| | Segregated | Fort Hills Dilbit (FRB)* Access Western Blend (AWB) Christina Lake Dilbit (CDB) Seal Heavy (SH) Borealis Heavy Blend (BHB) Long Lake Heavy Dilbit Blend (PDH) Western Canada Dilbit (WDB) Surmont Heavy Dilbit (SHD) | Fort Hills Dilbit (FRB) Access Western Blend (AWB) Christina Lake Dilbit (CDB) Seal Heavy (SH) Borealis Heavy Blend (BHB) Long Lake Heavy Dilbit Blend (PDH) Western Canada Dilbit (WDB) Surmont Heavy Dilbit (SHD) |
| | Spot | Albian Muskeg River Heavy (AMH) Canadian Heavy Dilbit (CHT) Canadian Blended Dilbit (CBT) | Albian Muskeg River Heavy (AMH) Canadian Heavy Dilbit (CHT) Canadian Blended Dilbit (CBT) |

* Mined bitumen with Paraffinic Froth Treatment, CRW spec diluent

Formerly transported as LCB, SDB, HDB

New Product

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|-----------------------------|---|
| Synbit | Pool | Synbit Blend (SYB) | MacKay River Heavy (MKH) Surmont Heavy Blend (SHB) PetroChina Blend (PXB) Long Lake Heavy Synbit Blend (PSH) |
| | Segregated | Surmont Mix A (SMA) | Surmont Mix A (SMA) |
| | Spot | Canadian Heavy Synbit (CHY) | Canadian Heavy Synbit (CHY) |
| | Currently Inactive | | |

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|-----------------------------------|-----------------------------------|
| Heavy Low Resid | Segregated | Suncor Synthetic H (OSH) | Suncor Synthetic H (OSH) |
| | Spot | Albian Vacuum Gas Oil Blend (AVB) | Albian Vacuum Gas Oil Blend (AVB) |

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|---|---|
| Cracked | Segregated | Suncor Cracked C (OCC) Pine Bend Special (PBS) | Suncor Cracked C (OCC) Pine Bend Special (PBS) |

| Crude Quality Group | Commodity Transport Method | Transport Commodity(ies) | Receipt Commodities |
|---------------------|----------------------------|----------------------------|----------------------------|
| Other | Spot | Sarnia Special Blend (SSS) | Sarnia Special Blend (SSS) |