



**Commodity Testing Summary**

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**Table 6**

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### Commodity Testing Summary

| Transport Commodity                        | Quality Category | Test        |
|--------------------------------------------|------------------|-------------|
| Refined Products (Gasoline and Distillate) | Products         | 2           |
| Condensate Blend (CRW)                     | Condensate       | 3,6,7       |
| Suncor (OSN)                               |                  | 3, 6, 7     |
| Hardisty Synthetic Crude (HSC)             | Light Synthetic  | 1, 2, 3     |
| Newgrade Synthetic Blend (NSA, NSX)        |                  | 1, 2, 3     |
| Premium Synthetic (PSY)                    |                  | 1, 2, 3, 8* |
| Synthetic Sweet Blend (SYN)                |                  | 1, 2, 3, 8* |
| Suncor C/D/M (OSC, OSD)                    |                  | 1, 2, 3     |
| Shell Synthetic Light (SSX)                |                  | 1, 2, 3     |
| Mixed Blend Sweet (MSW)                    | Sweet            | 1, 2, 3, 4  |
| U.S. Sweet – Clearbrook (UHC)              |                  | 1, 2, 3, 4  |
| U.S. Sweet – Lewiston (UHL)                |                  | 1, 2, 3, 4  |
| U.S. Sweet – Mokena (UHM)                  |                  | 1, 2, 3, 4  |
| Light Sour Blend (LSB)                     | Light Sour       | 1, 2, 3, 5  |
| Medium Sour Blend (MSB)                    | Medium Sour      | 1, 2, 3, 5  |
| Midale (M)                                 |                  | 1, 2,3, 5   |
| U.S. Sour - Mokena (UOM)                   |                  | 1, 2, 3, 5  |

**General Notes:**

Crude tests referenced in Table 6 are detailed in Tables 6A through 6E respectively.

\*Test only performed when commodity used as Line 1 buffer.

### Commodity Testing Summary (Continued)

| Transport Commodity              | Quality Category      | Test    |
|----------------------------------|-----------------------|---------|
| Albian Heavy Synthetic (AHS)     | Heavy                 | 1, 2, 3 |
| Cold Lake (CL)                   |                       | 1, 2, 3 |
| Conventional Heavy (CHV)         |                       | 1, 2, 3 |
| Premium Conventional Heavy (PCH) |                       | 1, 2, 3 |
| Western Canadian Select (WCS)    |                       | 1, 2, 3 |
| Western Heavy Blend (WHB)        |                       | 1, 2, 3 |
| U.S. Heavy - Mokena (UVM)        |                       | 1, 2, 3 |
| Albian Muskeg River Heavy (AMH)  | Heavy High Tan Dilbit | 1, 2, 3 |
| Access Western Blend (AWB)       |                       | 1, 2, 3 |
| Borealis Heavy Blend (BHB)       |                       | 1, 2, 3 |
| Blackrod Dilbit (BRD)            |                       | 1, 2, 3 |
| Christina Lake Dilbit (CDB)      |                       | 1, 2, 3 |
| Canadian Natural High-Tan (CNX)  |                       | 1, 2, 3 |
| Fort Hills Dilbit Blend (FRB)    |                       | 1, 2, 3 |
| IOL Kearl Heavy (KDB)            |                       | 1, 2, 3 |
| Long Lake Dilbit Blend (PDH)     |                       | 1, 2, 3 |
| Seal Heavy (SH)                  |                       | 1, 2, 3 |
| Surmont Heavy Dilbit (SHD)       |                       | 1, 2, 3 |
| Western Canada Dilbit (WDB)      |                       | 1, 2, 3 |
| U.S Dilbit – Superior (UDS)      |                       | 1, 2, 3 |
| Surmont Mix A (SMA)              | Heavy High Tan Synbit | 1, 2, 3 |
| Synbit Blend (SYB)               |                       | 1, 2, 3 |
| Albian Vacuum Blend (AVB)        | Heavy Low Resid       | 1, 2, 3 |
| Suncor H (OSH)                   |                       | 1, 2, 3 |
| Suncor Cracked C (OCC)           | Cracked               | 1, 2, 3 |
| Pine Bend Special (PBS)          |                       | 1, 2, 3 |
| Sarnia Special (SSS)             | Other                 | 1, 2, 3 |

**General Notes:**

Crude tests referenced in Table 6 are detailed in Tables 6A through 6E respectively.

\* Test only performed when commodity used as Line 1 buffer.

**Table 6A – General Testing**

| Test      | Frequency                       | Crude Types                       | Tests                                                                                  | Reporting                                                                                    |
|-----------|---------------------------------|-----------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>1</b>  | On Receipt                      | All                               | S&W, Density                                                                           | Reported by receipt ticket to feeder pipeline.                                               |
|           | Weekly:<br>Random               | All heavy<br>crudes               | Viscosity                                                                              | Reported to feeder on exception basis only<br>on violation of tariff quality specifications. |
|           |                                 | Select light and<br>medium crudes | Viscosity – tested<br>during winter months<br>to determine tariff<br>category          | Reported to feeder on exception basis only if<br>viscosity exceeds classification category   |
| <b>2</b>  | On Delivery                     | All                               | S&W, Density                                                                           | Reported by delivery ticket to delivery<br>facility.                                         |
|           | On Receipt<br>and Delivery      | Refined<br>products and<br>NGL    | Testing and reporting are in accordance with Enbridge’s Book 5<br>Operations Manual.   |                                                                                              |
| <b>3</b>  | Annual Crude<br>Characteristics | All<br>(not spot<br>commodities)  | Density, Vapor<br>Pressure, Sulphur,<br>Viscosity (10°C,<br>20°C, 30°C, 40°C,<br>45°C) | Annual crude characteristics report.                                                         |
| <b>3A</b> | Annually                        | Random                            | Organic Chloride                                                                       | Reported to feeder on exception basis only<br>on violation of quality specifications.        |
|           |                                 |                                   | Olefinic content                                                                       |                                                                                              |

**Table 6B - Sweet Streams Testing**

| Test | Location | Frequency                | Test       | Comments                                            | Reporting                                                                                                                                                                              |
|------|----------|--------------------------|------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4    | Receipt  | Composite or weekly      | Sulphur    | Selected batch receipt composite for MSW components | <ul style="list-style-type: none"> <li>Reported to feeder on exception basis only on violation of stream quality specifications per MSW Receipt Quality Standard procedures</li> </ul> |
|      |          | Annually                 | Phosphorus | Random Composite per MSW component stream           |                                                                                                                                                                                        |
|      |          | Selected receipt batches | Sulphur    | U.S. Sweet (UHC, UHL)                               | Reported to feeder on exception basis only on violation of stream quality specifications per MSW Receipt Sulphur Standard procedures                                                   |
|      |          | All receipt batches      | Sulphur    | U.S. Sweet (UHM)                                    | Reported to feeder on exception basis only on violation of stream quality specifications per MSW Receipt Sulphur Standard procedures                                                   |

**Table 6C - Sour Streams Testing**

| Test | Location | Frequency           | Test    | Comments                                                              | Reporting                                                                                                    |
|------|----------|---------------------|---------|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| 5    | Receipt  | Composite or Weekly | Sulphur | Selected batch receipt composite for feeder components to MSB, M, LSB | Enbridge issues monthly Crude Equalization Program report by the 20 <sup>th</sup> day of the following month |

**Table 6D - Condensate Sampling Procedures and Testing – Edmonton Terminal**

| Test | Location               | Frequency                                  | Tests                                                                                                                                                                          | Reporting                                                                                                                    |
|------|------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 6    | Receipts               | Weekly:<br>Random - per feeder:            | Light ends (Butane),<br>Sulphur                                                                                                                                                | Enbridge issues monthly Condensate Equalization Program report by the 20 <sup>th</sup> day of the following month            |
|      |                        | Monthly (spot)                             | Vapor pressure                                                                                                                                                                 |                                                                                                                              |
|      |                        | Random                                     | Viscosity, Olefins,<br>Organic Chlorides,<br>Aromatics, Mercaptans,<br>H <sub>2</sub> S, Benzene, Mercury,<br>Oxygenates,<br>Total Suspended Solids,<br>Phosphorous (Volatile) | Reported to feeder on exception basis only on violation of quality specifications.                                           |
| 7    | Deliveries at Edmonton | Monthly (spot) Each batch -                | Vapor pressure                                                                                                                                                                 | Reported to feeder on exception basis only on violation of stream quality specifications per CRW Receipt Standard procedures |
|      |                        | Monthly:<br>Random - per delivery facility | Light ends (Butane),<br>Sulphur                                                                                                                                                | Reported to delivery location on exception basis only on off-spec material.                                                  |

Note 1: Additional random testing will occur at Enbridge's discretion based on results.

**Table 6E – Line 1 Synthetic Buffer Testing**

| <b>Test</b> | <b>Location</b> | <b>Frequency</b> | <b>Test</b>                            | <b>Reporting</b>                                                                                                                            |
|-------------|-----------------|------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8</b>    | Edmonton        | Batch pump out   | Density, Copper Strip,<br>Particulates | Reported to feeder on exception basis only on violation of Line 1 Quality Guidelines in accordance with Enbridge's Book 5 Operations Manual |