



CONTINENTAL REFINING COMPANY

<b>CRC Transmix Quality Specifications - Attachment</b>		<b>ADM-200-01-A5</b>
Unit: Admin	Original Effective Date: 03/31/2014	Rev. No. 0
Superseded Procedure: N/A		1 of 1

<b>ANALYSIS</b>	<b>CRUDE OIL</b>	<b>TEST METHOD</b>
API @ 60 F	30- 60	<b>ASTM D-1298</b>
Sulfur (wt%) max	0.5	<b>ASTM D-4294</b>
BS &W % max*	2.0	
Paraffins (vol. %)	40 -70	<b>ASTM D-2789M</b>
N+2A (vol. %)	Minimum - 18	
Organic Chloride(ppm)	< 1.0	<b>ASTM D-4929</b>
Organic Nitrogen max (ppm)	500	<b>ASTM D-4629</b>
Microcarbon Residue (MCRT)	2.0 Max	<b>ASTM D-4530</b>
Light ends C2 - iC5	8 % Max	
Total Acid Number, mg KOH	0.8	<b>ASTM D-664</b>
RVP	<12.5 psi	<b>ASTM D-5191</b>
Vanadium	<10 ppm	<b>ASTM D-5708</b>
Nickel	<10 ppm	<b>ASTM D-5708</b>
Iron	<10 ppm	<b>ASTM D-5708</b>
Silicon	<10 ppm	<b>ASTM D-5708</b>
Asphaltene wt%	0.5	<b>ASTM D-6560</b>

\*EXCESS BS&W: If during any accounting period, one or more individual delivery ticket(s) covering Crude Petroleum delivered to Continental Refining Company by Crude Shippers reflect a BS&W content which exceeds 2%, the full percentage of BS&W will be deducted from the total crude delivery volume, and an environmental surcharge will be invoiced separately to Crude Shipper equal to the BS&W percentage in excess of 2%. EXCESS BRINE WATER, free of emulsion, capable of separation at time of unloading, shall be accounted for separately and invoiced to Crude Shipper at a charge of \$10/bbl. As an alternative, Crude Shipper may request Continental Refining Company to dispose of Crude Shipper's excess Brine Water by a mutually agreed upon method prior to delivery.

Written/Revised By: Steve Morris	Review Period: Every Three Years
Sponsor: Kristopher Gibson	Title: Refinery Manager
Signature: SOF	Current Date of Approval: 03-31-14
Verify accuracy if more than 24 hours from day/time printed	Date Printed: 3/10/2017 3:28 PM