



July 17, 2009

CQI Report to Stakeholders

Subject: May 2009 Condensate Results

As of January 1, 2008, the Crude Quality Monitoring Project has modified its condensate testing program. We acknowledge that industry requirements and specifications are different for condensates than for other types of crude. As such, we have updated our condensate testing program in an effort to provide the industry with reliable, accurate, and usable information specifically relevant to condensates. We believe that this information will be valuable for numerous industry purposes, such as better blending data and formulating condensate specifications and guidelines. Should you have any questions regarding this report, or the modified condensate testing program, please contact Crude Quality Inc. at (780) 991-9900 or at lywood@crudequality.com.

Observations:

Attached are detailed C30+ compositional and trace sulphur analyses, as well as historical data from crudemonitor.ca pertaining to typical light ends and bulk properties for Condensate Blend (CRW).

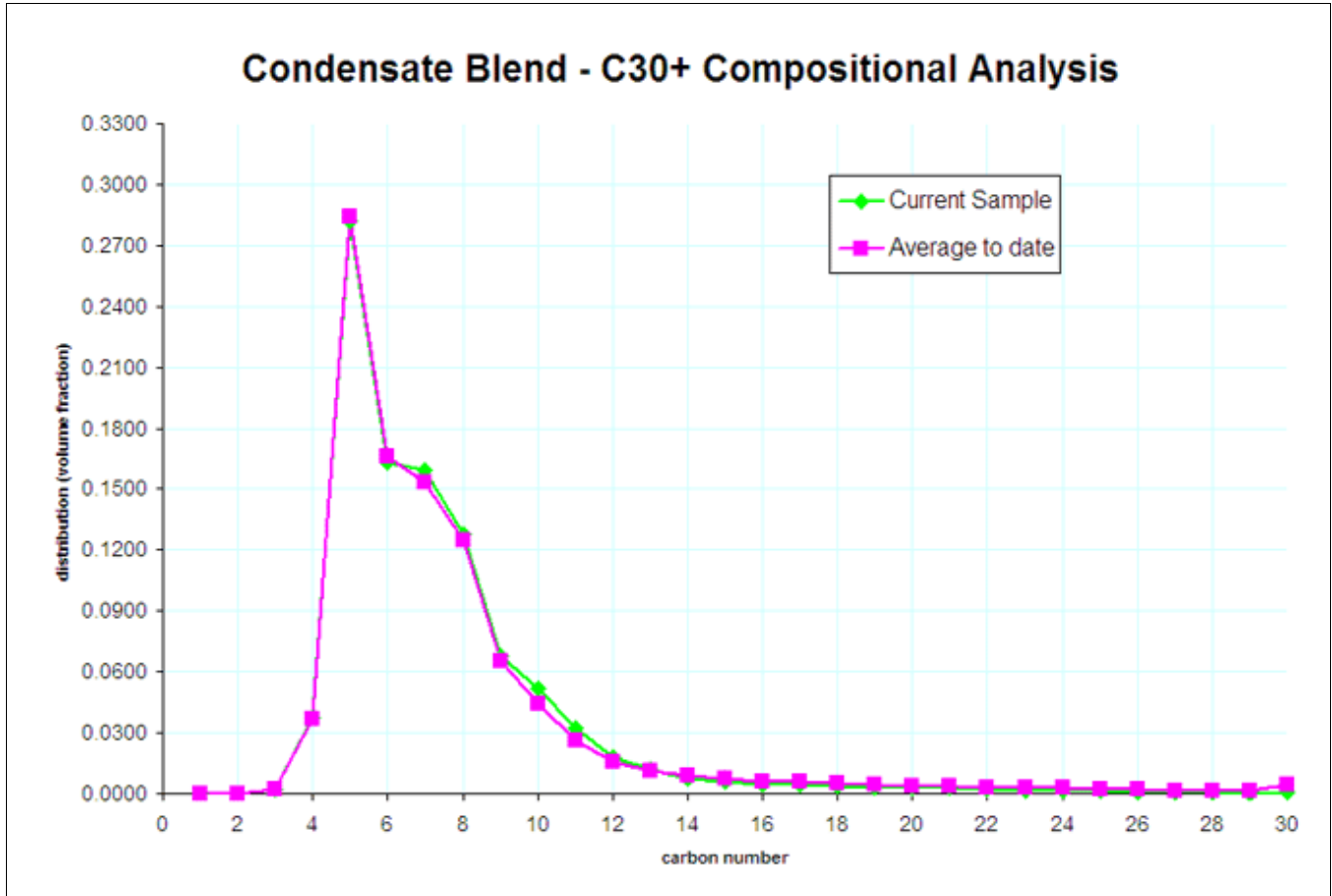
In addition to the attached, we note the following testing results:

	Sample Date	Batch #	Sulphur (wt%)	API Gravity (degree)	Absolute Density (kg/m ³)	MCR (wt%)	Viscosity @ 7.5° C (cSt)	RVP (kPa)	Organo-Phosphates (ppmw)	Total Mercaptans (ppm)	Olefins (wt%)
Current Data	05/01/09	CRW-832	0.11	66.3	714.8	0.1	0.8	-	1.1	122	-
Average To Date			0.19	65.1	719.2	0.23	0.8	75.8	0.9	99	7xND
Std Dev.			0.09	2.1	7.5	0.13	0.05	2.9	0.23	18	-
Avg+StdDev			0.28	67.2	726.7	0.36	0.85	78.7	1.13	117	-
Avg-StdDev			0.11	63.1	711.8	0.10	0.75	72.8	0.67	82	-

The May sample of CRW contained marginally higher than average mercaptans and C10s along with slightly decreased C17s x C19s. A sediment value of 90 ppmw was measured for this sample.



Figure 1. C30+ Compositional Analysis for CRW-832





C30+ COMPOSITIONAL ANALYSIS

A928831:P23287

MaxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC. MAY09 LIGHT CRUDES

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

COND. BLEND CRW-832

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval

Elevations (m)

Sample Gathering Point

Solution Gas

Test Type

No.

Multiple Recovery

From:

To:

KB

GRD

Well Fluid Status

Well Status Mode

Production Rates

Gauge Pressures kPa

Temperature °C

Well Status Type

Well Type

Water m3/d

Oil m3/d

Gas 1000m3/d

Source

As Received

Source

As Received

Gas or Condensate Project

Licence No.

2009/05/01

2009/06/12

2009/07/06

2009/07/07

JS2

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPOSITION

COMPONENT	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
N2			
CO2			
H2S			
C1	0.0000	0.0000	0.0000
C2	Trace	Trace	Trace
C3	0.0039	0.0019	0.0026
IC4	0.0078	0.0048	0.0060
NC4	0.0431	0.0267	0.0319
IC5	0.1611	0.1240	0.1387
NC5	0.1682	0.1294	0.1432
C6	0.1706	0.1569	0.1634
C7+	0.4453	0.5563	0.5142
TOTAL	1.0000	1.0000	1.0000

PROPERTIES

RESIDUE	RELATIVE DENSITY @ 15 °C		RELATIVE MOLECULAR MASS		DATA SUMMARY		
	OBSERVED	CALCULATED	OBSERVED	CALCULATED	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
C5+		0.704		96	0.9452	0.9666	0.9595
C6+		0.735		109	0.6159	0.7132	0.6776
C7+	0.756		117	117	0.4453	0.5563	0.5142
C10+					0.0980	0.1813	0.1595
C12+					0.0393	0.0896	0.0752
TOTAL		0.698		94			

Calculated Absolute Density Total Sample:
Gas Equivalent Factor:

697.4 kg/m3 @ 15°C
175.95 m3 Gas/m3 Liquid

** Information not supplied by client -- data derived from LSD information

Results relate only to items tested

Remarks:



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

A928831:P23287

Operator Name

Laboratory Number

CRUDE QUALITY INC. MAY09 LIGHT CRUDES

COND. BLEND CRW-832

Well Name

Sample Point

ENBRIDGE

Sampling Company

MaxxID

Client ID

2009/05/01

2009/06/12

2009/07/06

2009/07/07

JS2

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPONENT	BOILING POINT (°C)	MOLE FRACTION	MASS FRACTION	VOLUME FRACTION
Nitrogen	-196			
Carbon Dioxide	-79			
Hydrogen Sulphide	-60			
Methane	-162	0.0000	0.0000	0.0000
Ethane	-89	Trace	Trace	Trace
Propane	-42	0.0039	0.0019	0.0026
Iso-Butane	-12	0.0078	0.0048	0.0060
n-Butane	0	0.0431	0.0267	0.0319
Iso-Pentane	28	0.1611	0.1240	0.1387
n-Pentane	36	0.1682	0.1294	0.1432
Hexanes	37-69	0.1706	0.1569	0.1634
Heptanes	70-98	0.1673	0.1645	0.1590
Octanes	99-126	0.1225	0.1366	0.1277
Nonanes	127-151	0.0575	0.0739	0.0680
Decanes	152-174	0.0368	0.0551	0.0520
Undecanes	175-196	0.0219	0.0366	0.0323
Dodecanes	197-216	0.0115	0.0209	0.0181
Triadecanes	217-236	0.0069	0.0136	0.0117
Tetradecanes	237-253	0.0042	0.0089	0.0075
Pentadecanes	254-271	0.0032	0.0073	0.0061
Hexadecanes	272-287	0.0023	0.0055	0.0046
Heptadecanes	288-302	0.0021	0.0053	0.0044
Octadecanes	303-317	0.0017	0.0045	0.0037
NonaDecanes	318-331	0.0012	0.0035	0.0028
Eicosanes	332-343	0.0012	0.0035	0.0028
Heneicosanes	344-357	0.0010	0.0033	0.0027
Docosanes	358-369	0.0009	0.0029	0.0023
Triacosanes	370-380	0.0007	0.0021	0.0017
Tetracosanes	381-391	0.0006	0.0019	0.0015
Pentacosanes	392-402	0.0005	0.0017	0.0014
Hexacosanes	403-412	0.0004	0.0013	0.0011
Heptacosanes	413-422	0.0003	0.0010	0.0008
Octacosanes	423-432	0.0002	0.0007	0.0006
Nonacosanes	433-441	0.0001	0.0004	0.0003
triacontanes+	442-449+	0.0003	0.0013	0.0011
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0320	0.0287	0.0266
Benzene	80	0.0165	0.0138	0.0110
Cyclohexane	81	0.0292	0.0262	0.0235
Methylcyclohexane	101	0.0399	0.0418	0.0379
Toluene	111	0.0242	0.0237	0.0191
Ethylbenzene	136	0.0024	0.0028	0.0023
m&p-Xylene	139	0.0142	0.0161	0.0130
o-Xylene	144	0.0037	0.0041	0.0032
1,2,4-Trimethylbenzene	169	0.0041	0.0055	0.0044

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Remarks:



TRACE SULPHUR ANALYSIS

A928831:P23288

MaxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

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ENBRIDGE

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Initials of Sampler

Sampling Company

COND. BLEND CRW-832

VIAL

Field or Area

Pool or Zone

Sample Point

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Gas 1000m3/d

Source

As Received

Source

As Received

Gas or Condensate Project

Licence No.

2009/05/01

2009/06/12

2009/07/06

2009/07/07

JSA

Date Sampled Start

Date Sampled End

Date Received

Date Reported

Date Reissued

Analyst

COMPOSITION		Boiling Pt. (°C)	Sulphur mole ppm	Sulphur mass ppm	PROPERTIES
Component	Common Name				
Hydrogen Sulphide	H2S	-60.4	<0.5	<0.5	Molecular Wt. (g/mole) Measured
Carbonyl Sulphide	COS	-50	3.3	1.0	
Methanethiol	Methyl mercaptan	6.2	9.8	2.9	
Ethanethiol	Ethyl mercaptan	35	103.5	30.7	
Dimethyl Sulphide	DMS	38	36.0	10.7	Molecular Wt. (g/mole) Calculated
Carbon Disulphide	CS2	46.5	5.8	1.7	
Iso-Propanethiol	Iso-propyl mercaptan	58	132.0	39.1	Onsite H2S ppm(mole) mole%
t-Butanethiol	tert-butyl mercaptan	64	18.1	5.4	
Methyl Ethyl Sulphide	MES	67	23.5	7.0	
n-Propanethiol	Propyl mercaptan	70	23.3	6.9	
Unknown		36-69	0.8	<0.5	
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan	84/90	74.0	21.9	
Diethyl Sulphide	DES	92.1	13.3	3.9	
Iso-Butanethiol	Iso-butyl mercaptan	99	3.9	1.2	
n-Butanethiol	Butyl mercaptan	98	8.1	2.4	
Unknown		71-97	16.8	5.0	
Dimethyl Disulphide	DMDS	110	30.5	9.0	
n-Pentanethiol	Pentyl mercaptan	127	4.3	1.3	
Unknown		100-126	59.8	17.7	
n-Hexanethiol	Hexyl mercaptan	151	23.6	7.0	
Unknown		127-150	75.2	22.3	
n-Heptanethiol	Heptyl mercaptan	177	10.4	3.1	
Unknown		152-176	95.7	28.4	
Total Sulphur			4047	1199.0	

Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%)
 Naphtha IBP 204°C (volume %)
 Elemental Sulphur (mass ppm)

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Remarks:

Light Crude Quality Project Analyses Summary (December 2007)

Crude	Sample Date	No. Samples or Batch #	Sulphur (wt%)	API Density (degree)	Absolute Density (kg/m3)	Sediment (ppmw)	MCR (wt%)	Salt (ptb)	TAN (mgKOH/g)	Nickel (mg/L)	Vanadium (mg/L)
CRW Condensate Blend											
	2005 Q2	3	0.17	62.9	727.0		0.2			43.5	4.8
	2005 Q3	3	0.16	63.3	725.8		0.4			17.9	2.4
	2005 Q4	3	0.17	63.6	724.6		0.3				3.6
	2006 Q1	4	0.16	64.8	720.2		0.3				6.8
	2006 Q2	3	0.21	63.3	725.9		0.3				1.4
	2006 Q3	2	0.17	62.1	730.2		0.2				1.2
	2006 Q4	2	0.13	67.0	712.2		0.1				
	2007 Q1	3	0.13	65.4	718.1		0.2				
	2007 Q2	3	0.10	67.6	710.3		0.1				
	2007 Q3	3	0.13	65.7	717.0		0.2				
	2007 Q4	3	0.22	64.8	720.3		0.2				1.6
	2008 Q1	1	0.39	65.1	719.2		0.4				
	12/1/2007	CRW-753	0.15	67.6	710.2		0.1				
	1/1/2008	CRW-757	0.39	65.1	719.2		0.4				
	Average		0.17	64.6	721.0		0.2			35.0	3.2
	Std Dev		0.07	2.1	7.7		0.1			13.1	2.0
	Avg + StdDev		0.24	66.7	728.7		0.4			48.1	5.2
	Avg - StdDev		0.10	62.5	713.3		0.1			21.9	1.2

Light Crude Quality Project Light Ends Summary (December 2007)

Crude Sample Date	Count of Batches or Batch No.	Ethane (vol%)	Propane (vol%)	Butanes (vol%)	Pentanes (vol%)	Hexanes (vol%)	Heptanes (vol%)	Octanes (vol%)	Nonanes (vol%)	Decanes (vol%)	Benzene (vol%)	Toluene (vol%)	Ethyl Benzene (vol%)	Xylenes (vol%)	
CRW Condensate Blend															
2005 Q2	3	0.02	0.32	3.54	23.63	21.20	15.23	10.08	5.12	2.28	1.15	2.10	0.23	1.86	
2005 Q3	3	0.02	0.23	3.23	23.45	21.28	16.37	10.77	5.51	2.45	1.23	2.34	0.25	2.03	
2005 Q4	3	0.02	0.23	3.15	21.79	21.60	16.33	11.80	6.09	2.40	1.16	2.26	0.30	2.13	
2006 Q1	4	0.02	0.19	2.76	22.50	22.77	14.89	10.86	6.18	2.49	1.23	2.07	0.28	1.92	
2006 Q2	3	0.02	0.27	3.42	22.51	19.93	15.65	10.90	5.69	2.30	1.06	2.08	0.26	1.86	
2006 Q3	2	0.02	0.28	2.96	20.36	19.74	16.38	11.82	6.08	2.52	1.06	2.19	0.29	2.06	
2006 Q4	2	0.02	0.22	3.37	25.43	22.50	15.32	10.35	5.29	2.09	1.13	2.00	0.25	1.82	
2007 Q1	3	0.02	0.24	3.33	24.64	24.26	15.17	10.54	5.29	2.17	1.27	2.10	0.27	1.93	
2007 Q2	3	0.02	0.20	3.22	25.40	23.30	15.51	10.59	5.37	1.96	1.25	2.15	0.27	1.86	
2007 Q3	3	0.02	0.24	3.42	23.97	20.53	15.46	10.25	5.10	2.08	1.08	2.13	0.25	1.82	
2007 Q4	3	0.02	0.26	3.49	24.77	21.60	16.06	11.39	5.70	2.22	1.08	2.15	0.30	1.97	
2008 Q1	1	0.02	0.21	3.06	25.40	21.80	16.14	11.48	5.53	2.05	1.07	2.13	0.31	1.99	
12/1/2007	CRW-753	0.02	0.18	2.89	26.08	22.84	16.97	11.76	5.53	2.07	1.14	2.22	0.3	1.94	
1/1/2008	CRW-757	0.02	0.21	3.06	25.4	21.8	16.14	11.48	5.53	2.05	1.07	2.13	0.31	1.99	
Average		0.02	0.24	3.25	23.56	21.77	15.65	10.85	5.59	2.27	1.16	2.14	0.27	1.93	
Std Dev		0.01	0.06	0.34	2.28	1.95	0.94	0.96	0.65	0.30	0.12	0.16	0.04	0.16	
Avg + StdDev		0.03	0.30	3.59	25.84	23.72	16.59	11.82	6.24	2.56	1.28	2.30	0.31	2.09	
Avg - StdDev		0.01	0.18	2.91	21.28	19.82	14.71	9.89	4.94	1.97	1.04	1.99	0.23	1.78	