



December 8, 2008

CQI Report to Stakeholders

Subject: October 2008 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	10/13/2008	CRW-802	0.16	66.9	712.7	0.20	0.76	-	0.9	117	ND
Average To Date			0.19	64.9	720.1	0.24	0.82	74.8	.80	98	6xND
Std Dev.			0.09	2.0	7.4	0.14	0.05	0.9	.26	20	-
Avg+StdDev			0.28	66.9	727.5	0.38	0.87	75.7	1.1	118	-
Avg-StdDev			0.10	62.9	712.6	0.10	0.76	73.9	0.5	78	-

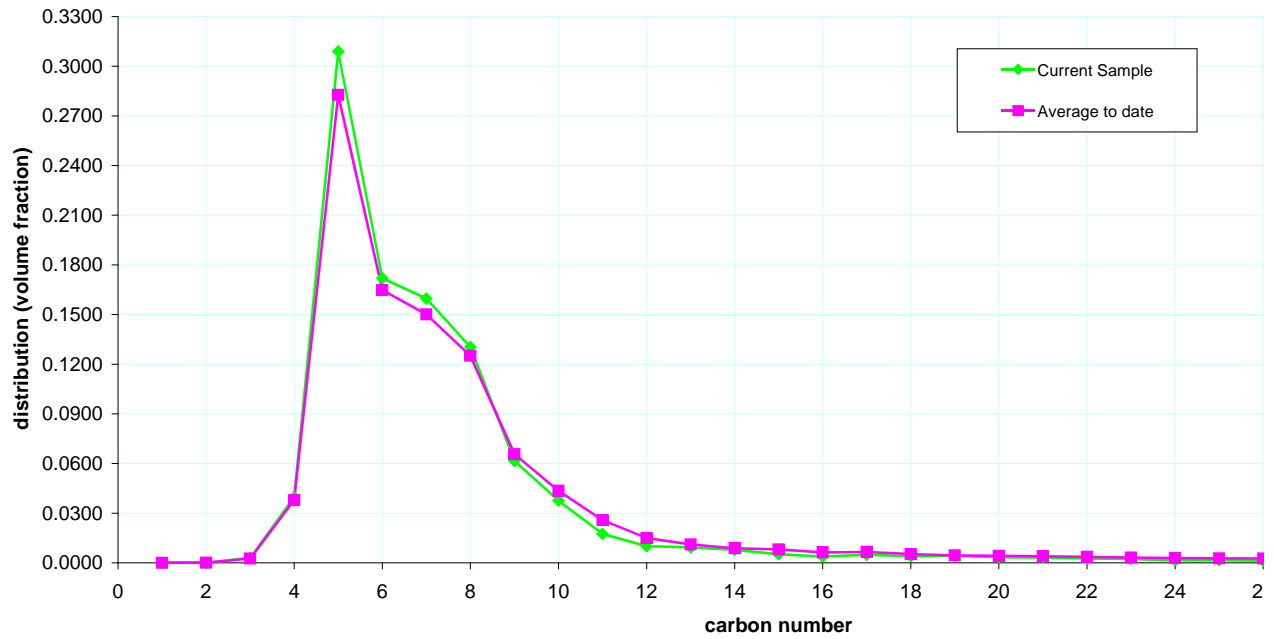
The October sample of CRW contained slightly increased C7s while also exhibiting marginally decreased C11s x C12s, C15s x C18s, C24s x C29s.

The October sample of Condensate Blend (CRW) was tested for oxygenates by PONAOX(U), as per the condensate quality specifications proposed by the CAPP Crude Quality Committee. This sample contained oxygenates at a level of <0.01 liquid volume %. This sample also exhibited a sediment by filtration value of 40 ppmw.



Figure 1. C30+ Compositional Analysis for CRW-802

Condensate Blend - C30+ Compositional Analysis





C30+ COMPOSITIONAL ANALYSIS

A860730:M56309

MaxxID

Client ID

Meter Number

Laboratory Number

CRUDE QUALITY INC.

Operator Name

LSD

Well ID

CRUDE QUALITY INC. OCT08 LIGHT CRUDES

ENBRIDGE

Well Name

Initials of Sampler

Sampling Company

COND. BLEND CRW-802

1L CAN

Field or Area

Pool or Zone

Sample Point

Container Identity

Percent Full

Test Recovery

Interval 1 Interval 2 Interval 3

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.

2008/10/13

2008/11/06

2008/12/01

SK1,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	0.0045	0.0022	0.0030
IC4	0.0074	0.0047	0.0058
NC4	0.0449	0.0286	0.0339
IC5	0.1754	0.1386	0.1539
NC5	0.1785	0.1412	0.1551
C6	0.1760	0.1659	0.1719
C7+	0.4133	0.5188	0.4764
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+		0.699		93	0.9432	0.9645	0.9573
C6+		0.733		106	0.5893	0.6847	0.6483
C7+	0.756		115	115	0.4133	0.5188	0.4764
C10+					0.0739	0.1445	0.1248
C12+					0.0346	0.0843	0.0697
TOTAL		0.694		91			

Calculated Absolute Density Total Sample: 693.4 kg/m3 @ 15°C
 Gas Equivalent Factor: 179.05 m3 Gas/m3 Liquid

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

Results relate only to items tested

Remarks:

See attached PONA analysis.



C30+ COMPOSITIONAL ANALYSIS

CRUDE QUALITY INC.

A860730:M56309

Operator Name

Laboratory Number

CRUDE QUALITY INC. OCT08 LIGHT CRUDES

COND. BLEND CRW-802

Well Name

Sample Point

ENBRIDGE

Sampling Company

MaxxID

Client ID

2008/10/13

2008/11/06

2008/12/01

SK1,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	0.0045	0.0022	0.0030
Iso-Butane	-12	0.0074	0.0047	0.0058
n-Butane	0	0.0449	0.0286	0.0339
Iso-Pentane	28	0.1754	0.1386	0.1539
n-Pentane	36	0.1785	0.1412	0.1551
Hexanes	37-69	0.1760	0.1659	0.1719
Heptanes	70-98	0.1641	0.1663	0.1597
Octanes	99-126	0.1232	0.1404	0.1304
Nonanes	127-151	0.0521	0.0676	0.0615
Decanes	152-174	0.0269	0.0403	0.0376
Undecanes	175-196	0.0124	0.0199	0.0175
Dodecanes	197-216	0.0066	0.0116	0.0101
Triadecanes	217-236	0.0058	0.0110	0.0094
Tetradecanes	237-253	0.0045	0.0093	0.0078
Pentadecanes	254-271	0.0027	0.0063	0.0052
Hexadecanes	272-287	0.0019	0.0046	0.0038
Heptadecanes	288-302	0.0023	0.0060	0.0049
Octadecanes	303-317	0.0017	0.0049	0.0040
NonaDecanes	318-331	0.0018	0.0052	0.0042
Eicosanes	332-343	0.0014	0.0042	0.0034
Heneicosanes	344-357	0.0013	0.0040	0.0032
Docosanes	358-369	0.0010	0.0033	0.0026
Triacosanes	370-380	0.0008	0.0029	0.0023
Tetracosanes	381-391	0.0005	0.0020	0.0016
Pentacosanes	392-402	0.0005	0.0021	0.0017
Hexacosanes	403-412	0.0005	0.0016	0.0013
Heptacosanes	413-422	0.0003	0.0011	0.0008
Octacosanes	423-432	0.0002	0.0007	0.0006
Nonacosanes	433-441	0.0002	0.0007	0.0006
triacontanes+	442-449+	0.0006	0.0028	0.0022
Totals		1.0000	1.0000	1.0000
neoHexane	50	0.0000	0.0000	0.0000
Methylcyclopentane	70	0.0335	0.0309	0.0285
Benzene	80	0.0152	0.0130	0.0103
Cyclohexane	81	0.0286	0.0263	0.0234
Methylcyclohexane	101	0.0403	0.0433	0.0390
Toluene	111	0.0239	0.0241	0.0194
Ethylbenzene	136	0.0024	0.0027	0.0022
m&p-Xylene	139	0.0137	0.0159	0.0127
o-Xylene	144	0.0034	0.0040	0.0031
1,2,4-Trimethylbenzene	169	0.0031	0.0043	0.0034

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Remarks:

See attached PONA analysis.



TRACE SULPHUR ANALYSIS

A860730:M56310

MaxxID		Client ID		Meter Number		Laboratory Number	
CRUDE QUALITY INC.						LSD	
Operator Name						Well ID	
CRUDE QUALITY INC. OCT08 LIGHT CRUDES						ENBRIDGE	
Well Name						Initials of Sampler	
COND. BLEND CRW-802						1L CAN	
Field or Area				Pool or Zone		Sample Point	
Sample Gathering Point						Solution Gas	
Test Recovery						Well Fluid Status	
Interval 1 Interval 2 Interval 3						Well Status Mode	
From: To:						Elevations (m)	
Test Type No. Multiple Recovery						KB GRD	
Production Rates						Well Status Type	
Water m3/d Oil m3/d Gas 1000m3/d						Well Type	
Gauge Pressures kPa						Gas or Condensate Project	
Source As Received						Licence No.	
Temperature °C						23.0	
Source As Received							
2008/10/13		2008/11/06		2008/12/01		AG	
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. (gmole) Measured
Carbonyl Sulphide	COS		-50	5.6	1.7	
Methanethiol	Methyl mercaptan		6.2	14.7	4.4	
Ethanethiol	Ethyl mercaptan		35	114.2	34.5	
Dimethyl Sulphide	DMS		38	29.7	9.0	Molecular Wt. (gmole) Calculated
Carbon Disulphide	CS2		46.5	4.0	1.2	
Iso-Propanethiol	Iso-propyl mercaptan		58	122.8	37.1	
t-Butanethiol	tert-butyl mercaptan		64	17.1	5.2	
Methyl Ethyl Sulphide	MES		67	16.4	5.0	Onsite H2S ppm(mole) mole%
n-Propanethiol	Propyl mercaptan		70	20.4	6.2	
Unknown			36-69	<0.5	<0.5	
Thiophene/sec-Butanethiol	Thiophene/sec-Butyl mercaptan		84/90	60.6	18.3	
Diethyl Sulphide	DES		92.1	8.3	2.5	
Iso-Butanethiol	Iso-butyl mercaptan		99	3.0	0.9	
n-Butanethiol	Butyl mercaptan		98	7.0	2.1	
Unknown			71-97	6.3	1.9	
Dimethyl Disulphide	DMDS		110	23.8	7.2	
n-Pentanethiol	Pentyl mercaptan		127	2.8	0.9	
Unknown			100-126	56.7	17.1	
n-Hexanethiol	Hexyl mercaptan		151	17.2	5.2	
Unknown			127-150	75.5	22.8	
n-Heptanethiol	Heptyl mercaptan		177	5.5	1.7	
Unknown			152-176	98.0	29.6	
Total Sulphur				5300	1600.0	
Mercaptan Sulphur on Naphtha fraction (IBP 204°C) ASTM D3227 (mass%) Naphtha IBP 204°C (volume %) Elemental Sulphur (mass ppm)						

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

Results relate only to items tested

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