

## APPENDIX J

### Table J-1

#### Storage and Distribution Study

#### PROPANE

#### Full Load Tractor Trailer Propane Deliveries to Bulk Depots

	<b>55,000 Litres Full Trailer Loads Loaded at 80% = 44,000 litres</b>						
		<b>To PPPC</b>	<b>Distance One Way</b>	<b>Total Overall Trip Cost</b>	<b>Calculated T/T Rate To Bulk Plant</b>	<b>Add Diesel Fuel Surcharge at Rate</b>	<b>Total Calculated Delivery Rates Including DFS</b>
<b>Source Terminal</b>	<b>Bulk Plant Location</b>	<b>Zone</b>	<b>Kms</b>	<b>\$</b>	<b>CPL</b>	<b>7.00%</b>	<b>CPL</b>
Come By Chance	St. John's	1	146	\$565.00	<b>1.284</b>	7.00%	<b>1.374</b>
Come By Chance	Grand Falls	3	279	\$865.00	<b>1.966</b>	7.00%	<b>2.104</b>
Come By Chance	Pasadena	6	512	\$1,506.00	<b>3.423</b>	7.00%	<b>3.662</b>

## APPENDIX-J

### TABLE J-2

#### Home Deliveries of Propane via Tank Wagon - Estimated Costs

Home Heat operation Based on 250 days per year operational availability

#### Tandem Axle Tank Wagon - 20,000 Liquid Litres Capacity Delivery Cost Per Annum and per Day

	Estimated Cost	Assumed Operating Days Per Year	Cost per Average Operating Day	Cost Per day when Idle with Driver	Cost Per day when Idle Laid-Up
<b><u>Direct Operating Expenses</u></b>	<b><u>\$/Annum</u></b>	<b><u>Days</u></b>	<b><u>\$/Day</u></b>	<b><u>\$/Day</u></b>	<b><u>\$/Day</u></b>
Driver salary and benefits	\$35,900	250	\$144	\$144	\$22
Helper salary and benefits (Part Year)	8,300	250	\$33	\$33	\$0
Interest- Vehicle financing	19,500	250	\$78	\$78	\$78
Depreciation- Vehicle*	35,000	250	\$140	\$140	\$140
Fuel consumed	12,000	250	\$48	\$0	\$0
Repairs and maintenance	12,000	250	\$48	\$48	\$10
Insurance	5,000	250	\$20	\$20	\$16
Licence	1,000	250	\$4	\$4	\$3
Miscellaneous	300	250	\$1	\$1	\$0
<b>Annual Operating Cost</b>	<b>\$129,000</b>	<b>250</b>	<b>\$516</b>	<b>\$468</b>	<b>\$268</b>

Equivalent Cost per Hour - 8 hour working day - 5 days per week    **\$64.50**    **\$58.50**    **\$33.52**

\*Based on a tandem at a cost of \$225,000 less an estimated residual value of \$50,000 after 5 years with straight line depreciation.

#### Single Axle Tank Wagon - 13,000 Liquid Litres Capacity Delivery Cost Per Annum and per Day

	Estimated Cost	Assumed Operating Days Per Year	Cost per Average Operating Day	Cost Per day when Idle with Driver	Cost Per day when Idle Laid-Up
<b><u>Direct Operating Expenses</u></b>	<b><u>\$/Annum</u></b>	<b><u>Days</u></b>	<b><u>\$/Day</u></b>	<b><u>\$/Day</u></b>	<b><u>\$/Day</u></b>
Driver salary and benefits	\$35,900	250	\$144	\$144	\$17
Helper salary and benefits (Part Year)	8,300	250	\$33	\$33	\$0
Interest- Vehicle financing	16,000	250	\$64	\$64	\$52
Depreciation- Vehicle**	30,000	250	\$120	\$120	\$90
Fuel consumed	11,500	250	\$46	\$0	\$0
Repairs and maintenance	12,000	250	\$48	\$48	\$8
Insurance	5,000	250	\$20	\$20	\$16
Licence	1,000	250	\$4	\$4	\$3
Miscellaneous	300	250	\$1	\$1	\$0
	<b>\$120,000</b>		<b>\$480</b>	<b>\$434</b>	<b>\$186</b>

Equivalent Cost per Hour - 8 hour working day    **\$60.00**    **\$54.25**    **\$23.30**

\*\*Based on a single-axle at a cost of \$185,000 less an estimated residual value of \$35,000 after 5 years with straight line depreciation..

## APPENDIX-J

### TABLE J-3

Heating Fuels - Residential Propane  
Maximum Tank Wagon Prices - Effective October 15, 2004

Zone	Geographic Area	Residential Propane CPL	Differential From Zone 2
1	St. John's & Avalon	<b>69.5</b>	<b>2.0</b>
1a	Bell Island	70.5	<b>3.0</b>
2	Clareville/ Burin-Bonavista Peninsulas	<b>67.5</b>	<b>0.0</b>
3	Central Newfoundland - Glovertown to Buchans	<b>70.0</b>	<b>2.5</b>
3a	St. Brendan's (Island)	N/A	N/A
3b	Fogo Island	N/A	N/A
3c	Change Islands	N/A	N/A
4	Connaigre Peninsula	71.0	<b>3.5</b>
4a	Gaultois to Francois / Rencontre East	N/A	N/A
5	Springdale & Baie Verte Peninsula	71.0	<b>3.5</b>
5a	Long Island	N/A	N/A
5b	Little Bay Island	N/A	N/A
6	Deer Lake - Corner Brook Areas	<b>71.5</b>	<b>4.0</b>
7	Gallants to Port aux Basques / Burgeo	72.5	<b>5.0</b>
7a	Ramea	N/A	N/A
7b	Grey River/ Grand Bruit / La Poile	N/A	N/A
8	Northern Peninsula - Gros Morne National Park, to Belburns	72.5	<b>5.0</b>
9	Northern Peninsula - to Englee and St. Anthony	73.5	<b>6.0</b>
10	Labrador Straits - L'Anse au Clair to Red Bay	N/A	N/A
10a	Mary's Harbour to Cartwright (road access)	N/A	N/A
11	Coastal Labrador - South	N/A	N/A
12	Central Labrador - Goose Bay Area	N/A	N/A
13	Western Labrador - Labrador City / Wabush	N/A	N/A
13a	Churchills Falls	N/A	N/A
14	Coastal Labrador - North	N/A	N/A

## APPENDIX-J

### TABLE J-4

#### TW Delivery of Propane to Bell Island - Extra Cost from Zone 1

Full time vehicle operating cost calculation	Single Axle	Tandem
Volume delivered per full load	13,000	20,000
Annual Operating cost of Vehicle	\$120,000	\$129,000
Assumed operating days per year	250	250
Vehicle Operating Cost per day	\$480	\$516
Standard Operating Hours per day	8.0	8.0
Vehicle cost per hr	\$60.00	\$64.50
Vehicle cost per hr Idle with Driver	\$51.75	\$58.50

#### Zone 1a - Bell Island

From Donavans Depot (Reduced Load Tandem)		Extra Cost Return Ferry Crossing
Location		Ferry
Supplier		Any
Tank Wagon		Tandem
Capacity (litres)		16,000
Distance one way (kms)		N/A
Less Average Dist for Avalon areas one way(kms)		
Net Extra Distance to Portugal Cove		
Avg Speed of TW (kms/hr)		N/A
Load Time at Bulk Plant (Per Delivery)		N/A
Discharge time (Per household)		N/A
Round trip Driving time (Minutes)		N/A
Ferry Crossing Time (Return)		40
Allowance for delays		30
Total Extra time for return trip (hours)		1.17
Operating cost \$/hr		\$58.50
Ferry Crossing Charge Return + Driver		\$111.50
Meals and Overnight for Driver		
Total Extra Cost for load delivered		\$179.75
Delivered cost in cents per litre		<b>1.12</b>

Average Extra Delivery Cost to Bell Island

CPL

**1.12**

## APPENDIX-J

### TABLE J-5

#### TW Delivery of Propane to Connaigre Peninsula - Extra Cost from Zone 3

Full time vehicle operating cost calculation	Single Axle	Tandem
Volume delivered per full load	13,000	20,000
Annual Operating cost of Vehicle	\$120,000	\$129,000
Assumed operating days per year	250	250
Vehicle Operating Cost per day	\$480	\$516
Standard Operating Hours per day	8.0	8.0
Vehicle cost per hr	\$60.00	\$64.50
Vehicle cost per hr Idle with Driver	\$51.75	\$58.50

#### Zone 4 - Grand Falls to Households in Connaigre Peninsula Using Tandem TW

From Bulk Plant at:	Grand Falls	Grand Falls	Grand Falls
To:Outlet	Households	Households	Households
Location	St. Alban's	Hr. Breton	ST. Jaques-Coomb's Cove
Tank Wagon	Tandem	Tandem	Tandem
Capacity (litres)	20,000	20,000	20,000
Distance one way (kms)	179	225	217
Less Average Dist for Zone 3-Central one way(kms)	81	81	81
<b>Net Extra Distance to Connaigre Location</b>	98	144	136
Avg Speed of TW (kms/hr)	65	65	65
Load Time at Bulk Plant (Per Delivery)	N/A	N/A	N/A
Discharge time (Per household)	N/A	N/A	N/A
Round trip Driving Extra time (Minutes)	90	133	126
Allowance for delays	30	30	30
Total Extra time for return trip (hours)	2.01	2.72	2.59
Operating cost \$/hr	\$64.50	\$64.50	\$64.50
Total Extra Cost for load delivered	\$129.50	\$175.14	\$167.20
Delivered cost in cents per litre	<b>0.65</b>	<b>0.88</b>	<b>0.84</b>

**Average Extra Delivery Cost to Area**

**0.79**

CPL

## APPENDIX-J

### TABLE J-6

#### TW Delivery of Propane to Springdale Areas from Zone 3

Full time vehicle operating cost calculation	Single Axle	Tandem
Volume delivered per full load	13,000	20,000
Annual Operating cost of Vehicle	\$120,000	\$129,000
Assumed operating days per year	250	250
Vehicle Operating Cost per day	\$480	\$516
Standard Operating Hours per day	8.0	8.0
Vehicle cost per hr	\$60.00	\$64.50
Vehicle cost per hr Idle with Driver	\$51.75	\$58.50

#### Zone 5 - Grand Falls to Households at Triton - Springdale - Baie Verte Areas

From Bulk Depot at	Grand Falls	Grand Falls	Springdale Area
To:Outlet	Households	Households	Households
Location	Triton	Springdale	Baie Verte
Tank Wagon	Tandem	Tandem	Tandem
Capacity (litres)	20,000	20,000	20,000
Distance one way (kms)	125	104	177
Less Average Dist for Central one way(kms)	81	81	81
<b>Net Extra Distance to Area Location</b>	44	23	96
Avg Speed of TW (kms/hr)	75	85	75
Load Time at Bulk Plant (Per Delivery)	N/A	N/A	N/A
Discharge time (Per household)	N/A	N/A	N/A
Round trip Driving Extra time (Minutes)	70	32	154
Allowance for delays	30	30	30
Total Extra time for return trip (hours)	1.67	1.04	3.06
Operating cost \$/hr	\$64.50	\$64.50	\$64.50
Total Extra Cost for load delivered	\$107.93	\$67.16	\$197.37
Delivered cost in cents per litre	<b>0.54</b>	<b>0.34</b>	<b>0.99</b>

**Average Extra Delivery Cost to Area**

**0.62**

CPL

## APPENDIX-J

### TABLE J-7

#### TW Delivery of Propane to Stephenville / Port aux Basques/ Burgeo Areas from Zone 6 - Corner Brook Depot

Full time vehicle operating cost calculation	Single Axle	Tandem
Volume delivered per full load	13,000	20,000
Annual Operating cost of Vehicle	\$120,000	\$129,000
Assumed operating days per year	250	250
Vehicle Operating Cost per day	\$480	\$516
Standard Operating Hours per day	8.0	8.0
Vehicle cost per hr	\$60.00	\$64.50
Vehicle cost per hr Idle with Driver	\$51.75	\$58.50

#### Zone 7 - Corner Brook to Households in Stephenville / Port aux Basques/ Burgeo Areas

From Bulk Depot at	Corner Brook	Corner Brook	Corner Brook
To:Outlet	Households	Households	Households
Location	Stephenville / Port au Port	Port aux Basques	Burgeo
Tank Wagon	Tandem	Tandem	Tandem
Capacity (litres)	20,000	20,000	20,000
Distance one way (kms)	106	219	213
Less Average Dist for Corner Brook Area one way (kms)	48	48	48
<b>Net Extra Distance to Location</b>	58	171	165
Avg Speed of TW (kms/hr)	70	85	75
Load Time at Bulk Plant (Per Delivery)	N/A	N/A	N/A
Discharge time (Per household)	N/A	N/A	N/A
Round trip Driving Extra time (Minutes)	99	241	264
Allowance for delays	30	30	30
Total Extra time for return trip (hours)	2.16	4.52	4.90
Operating cost \$/hr	\$64.50	\$64.50	\$64.50
Total Extra Cost for load delivered	\$139.14	\$291.77	\$316.05
Delivered cost in cents per litre	<b>0.70</b>	<b>1.46</b>	<b>1.58</b>

**Average Extra Delivery Cost to Area**

**1.24**

CPL

## APPENDIX-J

### TABLE J-8

#### TW Delivery of Propane to Southern Part of Northern Peninsula from Zone 6 - Corner Brook Depot

Full time vehicle operating cost calculation	Single Axle	Tandem
Volume delivered per full load	13,000	20,000
Annual Operating cost of Vehicle	\$120,000	\$129,000
Assumed operating days per year	250	250
Vehicle Operating Cost per day	\$480	\$516
Standard Operating Hours per day	8.0	8.0
Vehicle cost per hr	\$60.00	\$64.50
Vehicle cost per hr Idle with Driver	\$51.75	\$58.50

#### Zone 8 - Corner Brook to Households in Southern Part of Northern Peninsula

From Bulk Depot at	Corner Brook	Corner Brook	Corner Brook
To:Outlet	Households	Households	Households
Location	Rocky Harbour	Trout River	Belburns
Tank Wagon	Tandem	Tandem	Tandem
Capacity (litres)	20,000	20,000	20,000
Distance one way (kms)	121	134	218
Less Average Dist for Corner Brook Area one way (kms)	48	48	48
<b>Net Extra Distance to Location</b>	<b>73</b>	<b>86</b>	<b>170</b>
Avg Speed of TW (kms/hr)	75	85	80
Load Time at Bulk Plant (Per Delivery)	N/A	N/A	N/A
Discharge time (Per household)	N/A	N/A	N/A
Round trip Driving Extra time (Minutes)	117	121	255
Allowance for delays	30	30	30
Total Extra time for return trip (hours)	2.45	2.52	4.75
Operating cost \$/hr	\$64.50	\$64.50	\$64.50
Total Extra Cost for load delivered	\$157.81	\$162.77	\$306.38
Delivered cost in cents per litre	<b>0.79</b>	<b>0.81</b>	<b>1.53</b>

**Average Extra Delivery Cost to Area**

**1.04**

CPL

## APPENDIX-J

### TABLE J-9

#### TW Delivery of Propane to Northern Peninsula Areas (North) form Zone 6 - Corner Brook Depot

Full time vehicle operating cost calculation	Single Axle	Tandem
Volume delivered per full load	13,000	20,000
Annual Operating cost of Vehicle	\$120,000	\$129,000
Assumed operating days per year	250	250
Vehicle Operating Cost per day	\$480	\$516
Standard Operating Hours per day	8.0	8.0
Vehicle cost per hr	\$60.00	\$64.50
Vehicle cost per hr Idle with Driver	\$51.75	\$58.50

#### Zone 9 - Corner Brook to Households in Northern Part of Northern Peninsula

From Bulk Depot at	Corner Brook	Corner Brook	Corner Brook
To:Outlet	Households	Households	Households
Location	Port Au Choix	Roddicton	St. Anthony
Tank Wagon	Tandem	Tandem	Tandem
Capacity (litres)	20,000	20,000	20,000
Distance one way (kms)	282	401	467
Less Average Dist for Corner Brook Area one way (kms)	48	48	48
<b>Net Extra Distance to Location</b>	<b>234</b>	<b>353</b>	<b>419</b>
Avg Speed of TW (kms/hr)	75	75	80
Load Time at Bulk Plant (Per Delivery)	N/A	N/A	N/A
Discharge time (Per household)	N/A	N/A	N/A
Round trip Driving Extra time (Minutes)	374	565	629
Allowance for delays	30	30	30
Total Extra time for return trip (hours)	6.74	9.91	10.98
Operating cost \$/hr	\$64.50	\$64.50	\$64.50
Total Extra Cost for load delivered	\$434.73	\$639.41	\$707.89
Delivered cost in cents per litre	<b>2.17</b>	<b>3.20</b>	<b>3.54</b>

**Average Extra Delivery Cost to Area**

**2.97**

CPL