APPENDIX C

VOC Emissions Data – Truck Loading

C1. VOC Emission Rate Calculations / Data Sheets

C2. Tank Displacement Rate Calculations / Truck Loading Logs

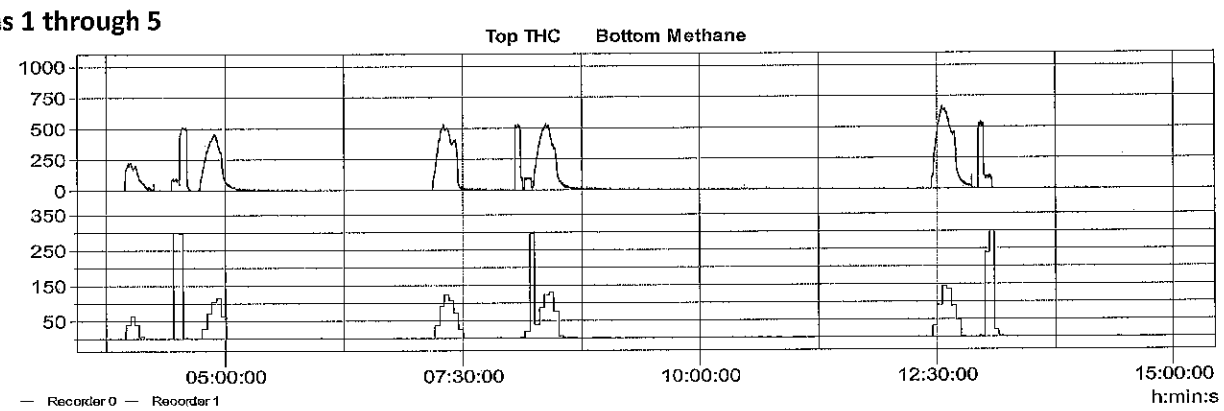
C1. VOC Emission Rate Calculations / Data Sheets

Sprague Searsport - Asphalt Loading Rack
Tanker Truck Air Displacement and NMHC Emissions Summary
June 20, 2013 (Trucks 1-5) and June 21, 2013 (Trucks 6-11)

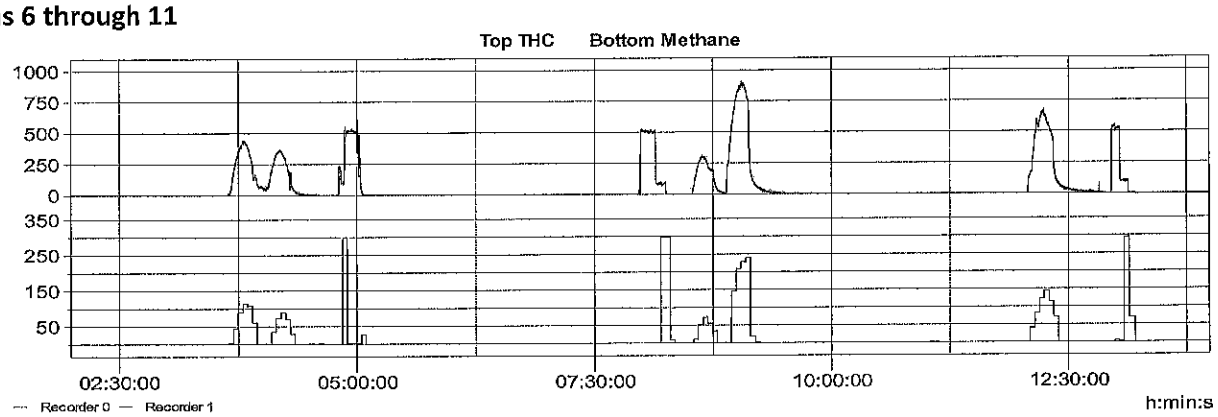
Truck No.	Start Time	End Time	Load Time (minutes)	Load (gallons)	Fill Rate (gal/hr)	Displacement (scfm)	NMHC (lb/hr)	NMHC (lb/load)	NMHC (Ton/load)
1 Void	3:49	4:05	16	7709	28909	64.4	Missed first half of load		
2	4:43	4:58	15	7915	31660	70.5	0.14	0.036	1.78E-05
3	7:11	7:25	14	7742	33180	73.9	0.19	0.044	2.22E-05
4	8:13	8:27	14	7740	33171	73.9	0.19	0.044	2.22E-05
5	12:26	12:40	14	7625	32679	72.8	0.23	0.051	2.55E-05
6	3:40	3:54	14	7676	32897	73.3	0.14	0.033	1.65E-05
7	4:03	4:17	14	7742	33180	73.9	0.13	0.029	1.47E-05
8 Void	7:33	7:47	14	7850	33643	75.0	Probe clogged with asphalt		
9	8:31	8:44	13	7466	34458	76.8	0.11	0.024	1.18E-05
10	8:53	9:05	12	6953	34765	77.5	0.36	0.073	3.63E-05
11	12:03	12:16	13	7443	34352	76.5	0.02	0.000	0.00E+00
Average:			**14**	**7624**	**32990**	**73.5**	**0.17**	**0.037**	**1.85E-05**

Note: One Gallon = 0.13368 cubic feet

Runs 1 through 5



Runs 6 through 11



Method 25A Calibration Data Sheet - THC

Source Summary	
Client:/Site:	Sprague Searsport
Source:/Location:	Asphalt Loading Rack
Initial Cal Date:	19-Jun-13 18:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	6.5		
Combustion Air Pressure -	5.5		
Sample Pressure -	1.5		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	x	
	Methane	0	
Program Molecular Weight:	44.09	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0.0	0.1
High Gas	866.9	872.7
Response Line	1.007	

Response Line = (Ha-Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	307.2	309.2	302.8	2.1	< 5% of cylinder concentration
Mid Gas	515.4	518.8	504.3	2.8	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #1 - 04:21 6/20/2013					
Calcheck 1 Zero	0.0	0.1	0.6	0.1	< 3% of the measurement range
Calcheck 1 Mid	515.40	504.3	503.7	0.1	< 3% of the measurement range
Calcheck #2 - 07:54 6/20/2013					
Calcheck 2 Zero	0.0	0.1	1.4	0.1	< 3% of the measurement range
Calcheck 2 Mid	515.40	504.3	511.5	0.7	< 3% of the measurement range
Calcheck #3 - 12:55 6/20/2013					
Calcheck 3 Zero	0.0	0.1	0.9	0.1	< 3% of the measurement range
Calcheck 3 Mid	515.40	504.3	518.1	1.4	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	297.3	C3H8/Air	CC350652	3/12/2015	29.7%
Mid Gas	45-55	515.4	C3H8/Air	CC248679	3/26/2015	51.5%
High Gas	80-90	866.9	C3H8/Air	CC50868	3/26/2015	86.7%

Method 25A Calibration Data Sheet - THC

Source Summary	
Client:/Site:	Sprague Searsport
Source:/Location:	Asphalt Loading Rack
Initial Cal Date:	19-Jun-13 18:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	6.5		
Combustion Air Pressure -	5.5		
Sample Pressure -	1.5		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	x	
	Methane	0	
Program Molecular Weight:	44.09	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0.0	0.1
High Gas	866.9	872.7
Response Line	1.007	

Response Line = (Ha-Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	307.2	309.2	302.8	2.1	< 5% of cylinder concentration
Mid Gas	515.4	518.8	504.3	2.8	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data					
Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #4 - 04:45 6/21/2013					
Calcheck 4 Zero	0.0	0.1	0.6	0.1	< 3% of the measurement range
Calcheck 4 Mid	515.40	504.3	512.2	0.8	< 3% of the measurement range
Final Calcheck - 12:45 6/21/2013					
Calcheck 5 Zero	0.0	0.1	0.1	0.0	< 3% of the measurement range
Calcheck 5 Mid	515.40	504.3	518.4	1.4	< 3% of the measurement range
					< 3% of the measurement range
					< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	297.3	C3H8/Air	CC350652	3/12/2015	29.7%
Mid Gas	45-55	515.4	C3H8/Air	CC248679	3/26/2015	51.5%
High Gas	80-90	866.9	C3H8/Air	CC50868	3/26/2015	86.7%

Method 25A Calibration Data Sheet - Methane

Source Summary	
Client:/Site:	Sprague Searsport
Source:/Location:	Asphalt Loading Rack
Initial Cal Date:	19-Jun-13 18:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

Methane Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	7		
Combustion Air Pressure -	5.5		
Carrier Gas Pressure -	22.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	0	
	Methane	x	
Program Molecular Weight:	16.04	g/mol	

Run Summary			

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0.0	0.19
High Gas	860.0	863.2
Response Line	1.004	

Response Line = (Ha-Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	290.0	291.0	296.0	1.7	< 5% of cylinder concentration
Mid Gas	504.0	505.8	505.4	0.1	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data					
Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #1 - 04:21 6/20/2013					
Calcheck 1 Zero	0.0	0.2	0.2	0.0	< 3% of the measurement range
Calcheck 1 Mid	290.00	296.0	301.3	0.5	< 3% of the measurement range
Calcheck #2 - 07:54 6/20/2013					
Calcheck 2 Zero	0.0	0.2	0.6	0.0	< 3% of the measurement range
Calcheck 2 Mid	290.00	296.0	295.4	0.1	< 3% of the measurement range
Calcheck #3 - 12:55 6/20/2013					
Calcheck 3 Zero	0.0	0.2	0.2	0.0	< 3% of the measurement range
Calcheck 3 Mid	290.00	296.0	296.4	0.0	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	290	CH4/Air	CC198791	4/2/2015	29.0%
Mid Gas	45-55	504	CH4/Air	CC72704	7/10/2015	50.4%
High Gas	80-90	860	CH4/Air	CC246069	7/10/2015	86.0%

Method 25A Calibration Data Sheet - Methane

Source Summary	
Client:/Site:	Sprague Searsport
Source:/Location:	Asphalt Loading Rack
Initial Cal Date:	19-Jun-13 18:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

Methane Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	7		
Combustion Air Pressure -	5.5		
Carrier Gas Pressure -	22.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	0	
	Methane	x	
Program Molecular Weight	16.04	g/mol	

Run Summary			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0.0	0.19
High Gas	860.0	863.2
Response Line	1.004	

Response Line = (Ha-Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	290.0	291.0	296.0	1.7	< 5% of cylinder concentration
Mid Gas	504.0	505.8	505.4	0.1	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #4 - 04:45 6/21/2013					
Calcheck 4 Zero	0.0	0.2	0.2	0.0	< 3% of the measurement range
Calcheck 4 Mid	290.00	296.0	297.7	0.2	< 3% of the measurement range
Final Calcheck - 12:45 6/21/2013					
Calcheck 5 Zero	0.0	0.2	0.5	0.0	< 3% of the measurement range
Calcheck 5 Mid	290.00	296.0	294.5	0.2	< 3% of the measurement range
					< 3% of the measurement range
					< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	290	CH4/Air	CC198791	4/2/2015	29.0%
Mid Gas	45-55	504	CH4/Air	CC72704	7/10/2015	50.4%
High Gas	80-90	860	CH4/Air	CC246069	7/10/2015	86.0%

Method 25A Data Sheet

Client	Sprague
Facility	Searsport, ME
Source	Asphalt Loading Rack
Test Location	Tanker Truck Fill Point
Date	20 June 2013

THC Analyzer Data

Manufacturer	VIG
Model/Serial Number	200/2660400
Fuel Pressure	6.5
Combustion Air Pressure	5.5
Sample Pressure	1.5
Measurement Range	0 – 1000
Response Time	~~[illegible]~~ 120 sec

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

June 19 2013 18:00

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	0.1
High Gas	866.9	872.7
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	307.2	303.38	302.8	2.1	< 5% of cylinder concentration
Mid Gas	515.4	~~[illegible]~~ 519	504.3	2.8	< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Cal Check #1 09:21 Calibration Drift Test Data 20 June 2013

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance
Test Run 1 Zero	0		0.6		< 3% of the measurement range
Test Run 1 Mid	515.4		503.7		< 3% of the measurement range
Cal Check #2 07:54 20 June 2013					Test Run 1 Avg. Conc.
Test Run 2 Zero			1.4		< 3% of the measurement range
Test Run 2 Mid	515.4		511.5		< 3% of the measurement range
Cal Check #3 12:55 20 June 2013					Test Run 2 Avg. Conc.
Test Run 3 Zero	0		0.9		< 3% of the measurement range
Test Run 3 Mid	515.4		518.1		< 3% of the measurement range
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Method 25A Data Sheet — Methane

Client	Sprague
Facility	Searsport, ME
Source	Asphalt Loading Rack
Test Location	Tanker Truck Fill Port
Date	20 June 2013

~~THC~~ CH4 Analyzer Data

Manufacturer	VIG
Model/Serial Number	200/2660406
Fuel Pressure	7.0
Combustion Air Pressure	5.5
Sample Pressure	22
Measurement Range	0-1000
Response Time	3 minutes

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	0.19
High Gas	860	863.2
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	290		296.0		< 5% of cylinder concentration
Mid Gas	504		505.4		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Cal Check #1 04:21				20 June 2013	
Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance
Test Run 1 Zero	0		0.2		< 3% of the measurement range
Test Run 1 Mid	290		301.3		< 3% of the measurement range
Cal Check #2 07:54 20 June 2013					Test Run 1 Avg. Conc.
Test Run 2 Zero	0		0.6		< 3% of the measurement range
Test Run 2 Mid	290		295.4		< 3% of the measurement range
Cal Check #3 20 June 2013					Test Run 2 Avg. Conc.
Test Run 3 Zero	0		0.2		< 3% of the measurement range
Test Run 3 Mid	290		296.4		< 3% of the measurement range
Calibration Drift = (Actual Response - CE Test Response) / Measurement Range * 100					Test Run 3 Avg. Conc.

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Method 25A Data Sheet

Client	Sprague
Facility	Searsport, ME
Source	Asphalt Loading Rack
Test Location	Tanker Truck Fill Port
Date	21 June 2013

THC Analyzer Data

Manufacturer	VIG
Model/Serial Number	200/2660406
Fuel Pressure	6.5
Combustion Air Pressure	5.5
Sample Pressure	1.5
Measurement Range	0-1000
Response Time	120 sec

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas		
High Gas		
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas					< 5% of cylinder concentration
Mid Gas					< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data Cal Check #4 04:45 21 June 2013

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero	0		0.1		< 3% of the measurement range	
Test Run 1 Mid	515.4		512.2		< 3% of the measurement range	
Final Cal Check 12:45 21 June 2013					Test Run 1 Avg. Conc.	
Test Run 2 Zero	0		0.1		< 3% of the measurement range	
Test Run 2 Mid	515.4		518.4		< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero					< 3% of the measurement range	
Test Run 3 Mid					< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) / Measurement Range * 100					Test Run 3 Avg. Conc.	

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Method 25A Data Sheet — Methane City

Client	Sprague
Facility	Searsport, ME
Source	Asphalt & Loading Rack
Test Location	Tanker Truck Fill Point
Date	21 June 2013

~~THC~~ Analyzer Data

Manufacturer	VIG
Model/Serial Number	200/2060406
Fuel Pressure	7.0
Combustion Air Pressure	5.5
Sample Pressure	22
Measurement Range	0-1000
Response Time	3 minutes

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas		
High Gas		
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas					< 5% of cylinder concentration
Mid Gas					< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data — Cal Check #4 09:45 — 21 June 2013

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero	0		0.2		< 3% of the measurement range	
Test Run 1 Mid	290		297.7		< 3% of the measurement range	
Final Cal Check 12:45 21 June 2013					Test Run 1 Avg. Conc.	
Test Run 2 Zero	0		0.5		< 3% of the measurement range	
Test Run 2 Mid	290		294.5		< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero					< 3% of the measurement range	
Test Run 3 Mid					< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.	

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Instrumental Analyzer Monitoring Data

Facility/Site:	**Sprague Searsport**	
Source:	**Asphalt Loading Rack**	
Truck	**1**	
Start Date/Time:	**6/20/2013 3:49 AM**	
End Date/Time:	**6/20/2013 4:05 AM**	
Fill Minutes	**16**	**(missed 1st half of load)**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/20/2013	3:57:03 AM	157	24
6/20/2013	3:58:03 AM	203	41
6/20/2013	3:59:03 AM	211	41
6/20/2013	4:00:03 AM	217	55
6/20/2013	4:01:03 AM	190	65
6/20/2013	4:02:03 AM	179	65
6/20/2013	4:03:03 AM	190	49
6/20/2013	4:04:03 AM	180	39
6/20/2013	4:05:03 AM	133	39
Averages		184	46

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	2
Start Date/Time:	6/20/2013 4:43 AM
End Date/Time:	6/20/2013 4:56 AM
Fill Minutes	15

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/20/2013	4:45:03 AM	132	18
6/20/2013	4:46:03 AM	197	29
6/20/2013	4:47:03 AM	257	29
6/20/2013	4:48:03 AM	312	57
6/20/2013	4:49:03 AM	352	73
6/20/2013	4:50:03 AM	391	73
6/20/2013	4:51:03 AM	416	93
6/20/2013	4:52:03 AM	438	105
6/20/2013	4:53:03 AM	445	105
6/20/2013	4:54:03 AM	421	111
6/20/2013	4:55:03 AM	371	114
6/20/2013	4:56:03 AM	325	114
6/20/2013	4:57:03 AM	296	83
6/20/2013	4:58:03 AM	163	65
Averages		322	76

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	3
Start Date/Time:	6/20/2013 7:11 AM
End Date/Time:	6/20/2013 7:20 AM
Fill Minutes	14

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/20/2013	7:12:03 AM	155	25
6/20/2013	7:13:03 AM	261	37
6/20/2013	7:14:03 AM	353	37
6/20/2013	7:15:03 AM	419	74
6/20/2013	7:16:03 AM	481	90
6/20/2013	7:17:03 AM	509	90
6/20/2013	7:18:03 AM	505	113
6/20/2013	7:19:03 AM	493	123
6/20/2013	7:20:03 AM	489	123
6/20/2013	7:21:03 AM	462	112
6/20/2013	7:22:03 AM	399	107
6/20/2013	7:23:03 AM	377	107
6/20/2013	7:24:03 AM	389	83
6/20/2013	7:25:03 AM	398	72
Averages		406	85

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	4
Start Date/Time:	6/20/2013 8:13 AM
End Date/Time:	6/20/2013 8:27 AM
Fill Minutes	14

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/20/2013	8:16:03 AM	231	40
6/20/2013	8:17:03 AM	308	40
6/20/2013	8:18:03 AM	382	73
6/20/2013	8:19:03 AM	438	87
6/20/2013	8:20:03 AM	483	87
6/20/2013	8:21:03 AM	505	113
6/20/2013	8:22:03 AM	525	123
6/20/2013	8:23:03 AM	513	123
6/20/2013	8:24:03 AM	495	129
6/20/2013	8:25:03 AM	427	131
6/20/2013	8:26:03 AM	370	131
6/20/2013	8:27:03 AM	344	91
6/20/2013	8:28:03 AM	300	75
Averages		409	96

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	5
Start Date/Time:	6/20/2013 12:26 AM
End Date/Time:	6/20/2013 12:39 AM
Fill Minutes	13.5

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/20/2013	12:27:03 PM	117	27
6/20/2013	12:28:03 PM	271	33
6/20/2013	12:29:03 PM	381	33
6/20/2013	12:30:03 PM	479	81
6/20/2013	12:31:03 PM	553	91
6/20/2013	12:32:03 PM	614	91
6/20/2013	12:33:03 PM	647	135
6/20/2013	12:34:03 PM	636	143
6/20/2013	12:35:03 PM	628	143
6/20/2013	12:36:03 PM	594	138
6/20/2013	12:37:03 PM	535	136
6/20/2013	12:38:03 PM	487	136
6/20/2013	12:39:03 PM	452	96
6/20/2013	12:40:03 PM	445	88
Averages		489	98

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	6
Start Date/Time:	6/21/2013 3:40 AM
End Date/Time:	6/21/2013 3:54 AM
Fill Minutes	14

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/21/2013	3:41:03 AM	157	13
6/21/2013	3:42:03 AM	225	45
6/21/2013	3:43:03 AM	284	45
6/21/2013	3:44:03 AM	334	55
6/21/2013	3:45:03 AM	371	89
6/21/2013	3:46:03 AM	393	89
6/21/2013	3:47:03 AM	422	95
6/21/2013	3:48:03 AM	428	114
6/21/2013	3:49:03 AM	418	114
6/21/2013	3:50:03 AM	401	113
6/21/2013	3:51:03 AM	360	108
6/21/2013	3:52:03 AM	318	108
6/21/2013	3:53:03 AM	261	97
6/21/2013	3:54:03 AM	143	61
6/21/2013	3:55:03 AM	153	61
Averages		311	80

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	7
Start Date/Time:	6/21/2013 4:03 AM
End Date/Time:	6/21/2013 4:17 AM
Fill Minutes	14

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/21/2013	4:05:03 AM	175	8
6/21/2013	4:06:03 AM	228	35
6/21/2013	4:07:03 AM	275	35
6/21/2013	4:08:03 AM	315	44
6/21/2013	4:09:03 AM	340	73
6/21/2013	4:10:03 AM	353	73
6/21/2013	4:11:03 AM	359	77
6/21/2013	4:12:03 AM	343	90
6/21/2013	4:13:03 AM	309	90
6/21/2013	4:14:03 AM	283	85
6/21/2013	4:15:03 AM	245	69
6/21/2013	4:16:03 AM	194	69
6/21/2013	4:17:03 AM	99	60
Averages		271	62

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	8
Start Date/Time:	6/21/2013 7:33 AM
End Date/Time:	6/21/2013 7:47 AM
Fill Minutes	14

Date	Time	THC (Propane) (ppm)	Methane (ppm)
Void - Probe clogged			
Averages		#DIV/0!	#DIV/0!

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	9
Start Date/Time:	6/21/2013 8:31 AM
End Date/Time:	6/21/2013 8:44 AM
Fill Minutes	13

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/21/2013	8:33:03 AM	103	10
6/21/2013	8:34:03 AM	167	10
6/21/2013	8:35:03 AM	222	24
6/21/2013	8:36:03 AM	264	52
6/21/2013	8:37:03 AM	290	52
6/21/2013	8:38:03 AM	300	58
6/21/2013	8:39:03 AM	291	72
6/21/2013	8:40:03 AM	270	72
6/21/2013	8:41:03 AM	240	66
6/21/2013	8:42:03 AM	205	56
6/21/2013	8:43:03 AM	194	56
6/21/2013	8:44:03 AM	195	48
6/21/2013	8:45:03 AM	159	34
Averages		223	47

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	10
Start Date/Time:	6/21/2013 8:53 AM
End Date/Time:	6/21/2013 9:05 AM
Fill Minutes	12

Date	Time	THC (Propane) (ppm)	Methane (ppm)
6/21/2013	8:56:03 AM	494	
6/21/2013	8:57:03 AM	600	147
6/21/2013	8:58:03 AM	691	147
6/21/2013	8:59:03 AM	767	170
6/21/2013	9:00:03 AM	823	209
6/21/2013	9:01:03 AM	851	209
6/21/2013	9:02:03 AM	863	216
6/21/2013	9:03:03 AM	879	228
6/21/2013	9:04:03 AM	878	228
6/21/2013	9:05:03 AM	846	233
6/21/2013	9:06:03 AM	782	240
6/21/2013	9:07:03 AM	609	240
Averages		757	206

Instrumental Analyzer Monitoring Data

Facility/Site:	Sprague Searsport
Source:	Asphalt Loading Rack
Truck	11
Start Date/Time:	6/21/2013 12:03 AM
End Date/Time:	6/21/2013 12:16 AM
Fill Minutes	13

Date Time	THC (Propane) (ppm)	Methane (ppm)
6/21/2013 12:06:03 PM	177	40
6/21/2013 12:07:03 PM	298	40
6/21/2013 12:08:03 PM	427	58
6/21/2013 12:09:03 PM	536	81
6/21/2013 12:10:03 PM	550	82
6/21/2013 12:11:03 PM	575	99
6/21/2013 12:12:03 PM	622	122
6/21/2013 12:13:03 PM	646	122
6/21/2013 12:14:03 PM	641	132
6/21/2013 12:15:03 PM	621	144
6/21/2013 12:16:03 PM	564	144
6/21/2013 12:17:03 PM	539	131
6/21/2013 12:18:03 PM	497	114
6/21/2013 12:19:03 PM	469	114
Averages	512	102

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 3:49 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 4:05 AM
Truck No. :	1 Vold	**Load Time (hours):**	0.27

Average Concentration:		184 ppmvw
Average Flow Rate:		64.4 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**337.92** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**9.57** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**2.11E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.082** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.007** lb/hr
NMHC lb/hr =			**0.074** lb/hr
NMHC lb/load =			**0.020** lb/load
NMHC ton/load			**9.87E-06** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 4:43 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 4:56 AM
Truck No. :	2	**Load Time (hours):**	0.25

Average Concentration:		322 ppmvw
Average Flow Rate:		70.5 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**590.99** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**16.74** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**3.69E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.156** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.013** lb/hr
NMHC lb/hr =			**0.143** lb/hr
NMHC lb/load =			**0.036** lb/load
NMHC ton/load			**1.78E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 7:11 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 7:20 AM
Truck No. :	3	**Load Time (hours):**	0.23

Average Concentration:		406 ppmvw
Average Flow Rate:		73.9 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**744.62** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**21.09** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.65E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.206** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.016** lb/hr
NMHC lb/hr =			**0.190** lb/hr
NMHC lb/load =			**0.044** lb/load
NMHC ton/load			**2.22E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 8:13 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 8:27 AM
Truck No. :	4	**Load Time (hours):**	0.23

Average Concentration:		409 ppmvw
Average Flow Rate:		73.9 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol, PPM)	=	**749.82** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**21.24** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.68E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.208** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.018** lb/hr
NMHC lb/hr =			**0.190** lb/hr
NMHC lb/load =			**0.044** lb/load
NMHC ton/load			**2.22E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 12:26 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 12:39 AM
Truck No. :	5	**Load Time (hours):**	0.23

Average Concentration:		489 ppmvw
Average Flow Rate:		72.8 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**895.38** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**25.36** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.59E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.244** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.018** lb/hr
NMHC lb/hr =			**0.226** lb/hr
NMHC lb/load =			**0.051** lb/load
NMHC ton/load			**2.55E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 3:40 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 3:54 AM
Truck No. :	6	**Load Time (hours):**	0.23

Average Concentration:		311 ppmvw
Average Flow Rate:		73.3 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**570.19** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**16.15** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**3.56E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.157** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.015** lb/hr
NMHC lb/hr =			**0.142** lb/hr
NMHC lb/load =			**0.033** lb/load
NMHC ton/load			**1.65E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 4:03 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 4:17 AM
Truck No. :	7	**Load Time (hours):**	0.23

Average Concentration:		271 ppmvw
Average Flow Rate:		73.9 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol, PPM)	=	**495.99** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**14.05** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**3.10E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.137** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.011** lb/hr
NMHC lb/hr =			**0.126** lb/hr
NMHC lb/load =			**0.029** lb/load
NMHC ton/load			**1.47E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 7:33 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 7:47 AM
Truck No. :	8 Void	**Load Time (hours):**	0.23

Average Concentration:		Void ppmvw
Average Flow Rate:		75.0 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		lb/hr
NMHC lb/hr =			lb/hr
NMHC lb/load =			lb/load
NMHC ton/load			ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 8:31 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 8:44 AM
Truck No. :	9	**Load Time (hours):**	0.22

Average Concentration:		223 ppmvw
Average Flow Rate:		76.8 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**408.52** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**11.57** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**2.55E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.117** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.009** lb/hr
NMHC lb/hr =			**0.109** lb/hr
NMHC lb/load =			**0.024** lb/load
NMHC ton/load			**1.18E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 8:53 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 9:05 AM
Truck No. :	10	**Load Time (hours):**	0.20

Average Concentration:		757 ppmvw
Average Flow Rate:		77.5 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**1387.14** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**39.28** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**8.66E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.402** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.040** lb/hr
NMHC lb/hr =			**0.363** lb/hr
NMHC lb/load =			**0.073** lb/load
NMHC ton/load			**3.63E-05** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 12:03 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 12:16 AM
Truck No. :	11	**Load Time (hours):**	0.22

Average Concentration:		512 ppmvw
Average Flow Rate:		76.5 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**937.52** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**26.55** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.85E-05** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.269** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.019** lb/hr
NMHC lb/hr =			**0.249** lb/hr
NMHC lb/load =			**0.054** lb/load
NMHC ton/load			**2.70E-05** ton/load

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 3:49 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 4:05 AM
Truck No. :	1 Void	**Load Time (hours):**	0.27

Average Concentration:	46 ppmvw
Average Flow Rate:	64.4 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**30.98** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**0.88** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.93409E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.007** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 4:43 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 4:56 AM
Truck No. :	2	**Load Time (hours):**	0.25

Average Concentration:	76 ppmvw
Average Flow Rate:	70.5 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol, PPM) =		**50.95** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**1.44** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**3.18126E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.013** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 7:11 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 7:20 AM
Truck No. :	3	**Load Time (hours):**	0.23

Average Concentration:	85 ppmvw
Average Flow Rate:	73.9 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**56.96** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**1.61** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**3.55639E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.016** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 8:13 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 8:27 AM
Truck No. :	4	**Load Time (hours):**	0.23

Average Concentration:	96 ppmvw
Average Flow Rate:	73.9 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**63.80** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**1.81** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**3.98339E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.018** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/20/2013 12:26 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/20/2013 12:39 AM
Truck No. :	5	**Load Time (hours):**	0.23

Average Concentration:	98 ppmvw
Average Flow Rate:	72.8 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**65.33** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**1.85** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.07879E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.018** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 3:40 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 3:54 AM
Truck No. :	6	**Load Time (hours):**	0.23

Average Concentration:	80 ppmvw
Average Flow Rate:	73.3 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		**53.57** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**1.52** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**3.34467E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.015** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 4:03 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 4:17 AM
Truck No. :	7	**Load Time (hours):**	0.23

Average Concentration:	62 ppmvw
Average Flow Rate:	73.9 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**41.51** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**1.18** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**2.59147E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.011** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 7:33 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 7:47 AM
Truck No. :	8 Void	**Load Time (hours):**	0.23

Average Concentration:		Void ppmvw
Average Flow Rate:		75.0 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 8:31 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 8:44 AM
Truck No. :	9	**Load Time (hours):**	0.22

Average Concentration:	47 ppmvw
Average Flow Rate:	76.8 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol, PPM) =		**31.20** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**0.88** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.94777E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.009** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 8:53 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 9:05 AM
Truck No. :	10	**Load Time (hours):**	0.20

Average Concentration:		206 ppmvw
Average Flow Rate:		77.5 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**137.46** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**3.89** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**8.58212E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.040** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Sprague Searsport	**Start Date/Time:**	6/21/2013 12:03 AM
Source/Location:	Asphalt Loading Rack	**End Date/Time:**	6/21/2013 12:16 AM
Truck No. :	11	**Load Time (hours):**	0.22

Average Concentration:	102 ppmvw
Average Flow Rate:	76.5 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		**67.83** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**1.92** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.23502E-06** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.019** lb/hr

C2. Tank Displacement Rate Calculations / Truck Loading Logs

TOTAL GALLONS OF ASPHALT LOADED

BOL'S JUNE 20 2013 THRU JUNE 21 2013

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
235	300	HOB	142		6-20-13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
LANE CONSTRUCTION
HERMON

BILL TO:
LANE CONSTRUCTION
965 EAST MAIN STREET
MERIDEN, CT.
ACCT #: 468522/

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	99660	33820	65840	32.92		7709

Technical Data

Specific Gravity @ 25C -	1.0307		
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees

ELEVATED TEMPERATURE LIQUID
(ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____ GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

Carrier hereby certifies that in accordance with Icc order #71, Docket 3866, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity tendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank _____	Tank _____
Open Dip _____	Open Dip _____
Close Dip _____	Close Dip _____
Water _____	Water _____

DRIVER: [signature]

WEIGHMASTER: [signature]

99660 lb GROSS
33820 lb TARE
65840 lb NET
LOAD ID 300
4119BM
6-20-13

SIGN & RETURN

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. # 21-	LOADED / DEL DATE	TIME
175	97	HOB	143		6-20-13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
OLD CASTLE
PROSPECT

BILL TO:
OLD CASTLE

Silicone Added

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	99640	32040	67600	33.80		7915

Technical Data

Specific Gravity @ 25C	-	1.0307		
osity (Pa-S @ 135C)	-	0.418	Mixing Temp C	- 149.5 Degrees
Viscosity (Pa-S @ 165C)	-	0.078	Compaction Temp C	- 141 Degrees

ELEVATED TEMPERATURE LIQUID
(ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity rendered

certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is ree of retained residue and does not contain residue which xceeds 0.5% of transport capacity.

DRIVER:

Ralph Doughty

SIGN & RETURN

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

99640 lb GROSS
32040 lb TARE
67600 lb NET
LOAD 97
5:05PM
6-20-13

WEIGHMASTER:

Tank		Tank	
Open		Open	
Dip		Dip	
Close		Close	
Dip		Dip	
Water		Water	

LOAD 97 INBOUND 6-20-13 4:33PM

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
300	235	Hob	144		6-20-13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
LANE CONSTRUCTION
HERMON

BILL TO:
LANE CONSTRUCTION
965 EAST MAIN STREET
MERIDEN, CT.
ACCT #: 468522/

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	99960	33840	66120	33.06		7742.38

Technical Data

Specific Gravity @ 25C	-	1.0307		
Viscosity (Pa-S @ 135C)	-	0.418	Mixing Temp C	- 149.5 Degrees
Viscosity (Pa-S @ 165C)	-	0.078	Compaction Temp C	- 141 Degrees

ELEVATED TEMPERATURE LIQUID
(ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____ GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transpodation of the commodity tendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

DRIVER:

WEIGHMASTER:

Tank Open		Tank Open	
Dip		Dip	
Close Dip		Close Dip	
Water		Water	

LOOP ID 300 INBOUND 33840 lb
6:42AM 6-20-13
99960 lb GROSS
33840 lb TARE
66120 lb NET
LOOP ID 300
7:42AM 6-20-13

SIGN & RETURN

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. # 21-	LOADED / DEL DATE	TIME
117	343	HOB	145		6-20-13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
OLD CASTLE
FAIRFIELD

BILL TO:
OLD CASTLE

Silicone Added

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	97940	31840	66100	33.05		7740.04

Technical Data

Specific Gravity @ 25C -	1.0307		
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees

ELEVATED TEMPERATURE LIQUID
(ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity tendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank		Tank	
Open		Open	
Dip		Dip	
Close		Close	
Dip		Dip	
Water		Water	

DRIVER:

WEIGHMASTER:

SIGN & RETURN

LOOP ID 0343 GROUND 3 28 7:56AM 6-20-13 97940 lb GROSS 31840 lb TARE 66100 lb NET

LOOP ID 034 8:43AM 6-20-13

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
117	343	HOB	146		6-20-13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
OLD CASTLE
FAIRFIELD

BILL TO:
OLD CASTLE

Silicone Added

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	96860	31740	65120	32.56		7625.292

Technical Data

Specific Gravity @ 25C -	1.0307		
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees

ELEVATED TEMPERATURE LIQUID (ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity tendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank _____	Tank _____
Open Dip _____	Open Dip _____
Close Dip _____	Close Dip _____
Water _____	Water _____

DRIVER:

SIGN & RETURN

WEIGHMASTER:

LOOP ID 373 INBOUND 31740 lb
12:14PM 6-20-13
96860 lb GROSS
31740 lb TARE
65120 lb NET
LOOP ID 373
1:19PM 6-20-13

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
235	300	HOB	147		6-21-13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
LANE CONSTRUCTION
HERMON

BILL TO:
LANE CONSTRUCTION
965 EAST MAIN STREET
MERIDEN, CT.
ACCT #: 468522/

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	99040	33480	65560	32.78		7676

Technical Data

Specific Gravity @ 25C -	1.0307		
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees

ELEVATED TEMPERATURE LIQUID
(ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____ GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity tendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my cement load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank Open		Tank Open	
Dip		Dip	
Close Dip		Close Dip	
Water		Water	

DRIVER:

WEIGHMASTER:

GROUND 33480 lb TARE
LOAD ID 3666
99040 lb GROSS
65560 lb NET
LOAD 300
4:29PM
6-21-13

SIGN & RETURN

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
175	97	HOB	148		6-21-13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
MATTINGLY PRODUCTS
N. ANSON

BILL TO:
MATTINGLY PRODUCTS
P.O. BOX 105, 26 SOLON RD.
NORTH ANSON, MAINE
ACCT #: 581500

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	98540	32420	66120	33.06		7742

Technical Data

Specific Gravity @ 25C -	1.0307		
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees

ELEVATED TEMPERATURE LIQUID
(ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____ GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity tendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank		Tank	
Open		Open	
Dip		Dip	
Close		Close	
Dip		Dip	
Water		Water	

DRIVER: Ralph Dougherty

SIGN & RETURN

98540 lb GROSS
32420 lb TARE
66120 lb NET
LOOP ID 97
3:58PM
6-21-13

WEIGHMASTER:

INBOUND 32420
97 3:23PM
6-21-13

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. # 21-	LOADED / DEL DATE	TIME
235	300	H.O.B	149		6/21/13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
OLD CASTLE
BANGOR

BILL TO:
OLD CASTLE

Silicone added

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	100540	33500	67040	33.520		7850.117

Technical Data

Specific Gravity @ 25C -	1.0307		
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees

ELEVATED TEMPERATURE LIQUID (ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity rendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank		Tank	
Open		Open	
Dip		Dip	
Close		Close	
Dip		Dip	
Water		Water	

DRIVER: Alan [signature]

WEIGHMASTER: Dale E Peaydon

SIGN & RETURN

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
249	332	H.O.B	150	21-	6/21/13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
OLD CASTLE
FAIRFIELD

BILL TO:
OLD CASTLE

silicone added

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	98220	34460	63760	31.880		7466.042

Technical Data

Specific Gravity @ 25C	-	1.0307		
Viscosity (Pa-S @ 135C)	-	0.418	Mixing Temp C	- 149.5 Degrees
Viscosity (Pa-S @ 165C)	-	0.078	Compaction Temp C	- 141 Degrees

6-21-13
LOOP ID 332
63760 lb NET
34460 lb TARE
98220 lb GROSS

ELEVATED TEMPERATURE LIQUID (ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED

6-21-13
8:21AM
LOOP ID 332
INBOUND 34460 lb

Carrier hereby certifies that in accordance with Icc order #71, Docket 3666, that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity tendered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank		Tank	
Open		Open	
Dip		Dip	
Close		Close	
Dip		Dip	
Water		Water	

DRIVER:

WEIGHMASTER:
Dale E Bragdon Sr.

SIGN & RETURN

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Maine 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
175	97	HOB	151		6/21/13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
VAUGHN THIBODEAU
PROSPECT

BILL TO:
VAUGHN THIBODEAU
892 ODLIN ROAD
BANGOR, MAINE
ACCT #: 909100

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	91420	32040	59380	29.690		6953.161

Technical Data

Specific Gravity @ 25C -	1.0307		
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees

ELEVATED TEMPERATURE LIQUID
(ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____ GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____

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Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank		Tank	
Open		Open	
Dip		Dip	
Close		Close	
Dip		Dip	
Water		Water	

DRIVER:
Ralph Doughty
SIGN & RETURN

WEIGHMASTER:
Dale E Braggdon Sr.

LOADING ORDER
BILL OF LADING

IRVING OIL TERMINALS INC.

c/o Sprague
70 Trundy Road
Searsport, Me. 04974
(207) 548-2531
EPA #82429

TRAILER #	DRIVER #	CARRIER	MOVEMENT #	P.O. #	LOADED / DEL DATE	TIME
247 332	H.O.B		152	21-	6/21/13	

SUPPLIER:
Irving Oil Terminal Inc. Searsport, Me.

Batch # 1196418

SHIP TO:
OLD CASTLE
FAIRFIELD

BILL TO:
OLD CASTLE

Silicone added

PRODUCT, TRUCK MARKINGS, DANGEROUS GOODS DOCUMENTATION

Product code	Tank	Gross	Tare	Net	Tons	Tonne	Gallons
PG 64-28	2	98040	34480	63560	31.780		7442.622

Technical Data

Specific Gravity @ 25C -	1.0307			
Viscosity (Pa-S @ 135C) -	0.418	Mixing Temp C -	149.5 Degrees	
Viscosity (Pa-S @ 165C) -	0.078	Compaction Temp C -	141 Degrees	

ELEVATED TEMPERATURE LIQUID (ASPHALT) , 9, UN3257, PG III
LOADING TEMP. 310 DEG. F.
CHEMTREC 1-800-424-9300

ADDITIONAL COMMENTS
ACID MODIFIED

CHARGES
COLLECT ( ) PREPAID ( )

RECEIVED
PAYMENT $ _____ SHIPPER BY _____ DATE _____
C/C $ _____
OTHER $ _____ CONSIGNEE BY _____ DATE _____
TOTAL $ _____ CARRIER BY _____ DATE _____
GOODS RECEIVED IN GOOD ORDER EXCEPT AS NOTED

Carrier hereby certifies that in accordance with icc order #71, Docket 3666, that the cargo tank supplied for this shipment is proper container for the transportation of the commodity ordered

This is to certify that the asphalt product delivered under this ticket number conforms to AASHTO/SHRP specifications.

Elevated temperature Material, Liquid, NOS, 9, NA3257, III

Tank		Tank	
Open		Open	
Dip		Dip	
Close		Close	
Dip		Dip	
Water		Water	

I certify that the product in my current load is compatible with product residue from my previous load. Further that my trailer is free of retained residue and does not contain residue which exceeds 0.5% of transport capacity.

DRIVER:

SIGN & RETURN

WEIGHMASTER:
Dale E. Braydens