Major Component Gas Analysis By ASTM D1945 / D1946

Report Date: 6-Oct-15
Client Name: AirTech Environmental Services, Inc.
GTI Sample Number: 152678-001 152678-002 152678-003
Sample Description: Inlet Tank 13/14/2015
Date Analyzed: 23-Sep-15 Analyst: BDY

	Test 1					Test 2					Test 3			
Components	mol%	wt%	Calc	wt% no Air	LHV	mol%	wt%	Calc	wt% no Air	LHV	mol%	wt%	LHV	BTU/lb
Hydrogen	8	0.589	0.589	1.1%	563	5.2	0.4	0.589	1.2%	623	14.5	1.2	620	51,628
CO2	3.46	5.57	5.57	10.3%	-	4.24	6.72	5.57	11.4%	-	5.14	8.93	-	-
Oxygen	7.46	8.82	0.18	0.3%	-	10.6	12.4	0.18	0.4%	-	0.14	0.18	-	-
Nitrogen	42.5	43.5	6.258621	11.6%	-	53.2	53.7	1.0275862	2.1%	-	9.09	10.1	-	-
CO	2.99	3.06	3.06	5.7%	247	2.79	2.81	3.06	6.3%	274	5.1	5.64	246	4,368
Methane	19.7	11.5	11.5	21.3%	4,563	13.4	7.73	11.5	23.6%	5,052	36.9	23.4	5,015	21,433
Ethane	2.65	2.92	2.92	5.4%	1,097	1.98	2.15	2.92	6.0%	1,215	5.2	6.17	1,252	20,295
Ethene	6.25	6.41	6.41	11.9%	2,436	4.23	4.27	6.41	13.1%	2,697	11.5	12.7	2,607	20,525
Ethyne	0.032	0.031	0.031	0.1%	12	0.011	0.01	0.031	0.1%	13	0.06	0.062	13	20,744
Propane	0.056	0.091	0.091	0.2%	33	0.044	0.071	0.091	0.2%	37	0.117	0.203	40	19,834
Propene	2.01	3.1	3.1	5.7%	1,127	1.58	2.39	3.1	6.4%	1,247	4.16	6.91	1,356	19,630
Propadiene	0.016	0.023	0.023	0.0%	8	0	0	0.023	0.0%	9	0.035	0.055	11	19,921
Propyne	0.036	0.053	0.053	0.1%	19	0.022	0.032	0.053	0.1%	22	0.067	0.106	21	19,838
i-Butane	0.004	0.008	0.008	0.0%	3	0.003	0.007	0.008	0.0%	3	0.008	0.018	4	19,976
n-Butane				0.0%	-		0		0.0%	-	0.003	0.006	1	19,657
1-Butene	0.014	0.029	0.029	0.1%	10	0.013	0.027	0.029	0.1%	12	0.034	0.074	14	19,468
i-Butene	0.398	0.817	0.817	1.5%	290		0	0.817	1.7%	322	0.851	1.88	361	19,200
trans-2-Butene	0.017	0.036	0.036	0.1%	13	0.019	0.038	0.036	0.1%	14	0.038	0.085	16	19,389
cis-2-Butene	0.013	0.027	0.027	0.0%	10	0.338	0.683	0.027	0.1%	11	0.029	0.064	12	19,415
1,3-Butadiene	0.134	0.264	0.264	0.5%	94	0.093	0.181	0.264	0.5%	104	0.306	0.654	125	19,153
neo-Pentane						0.012	0.03		0.0%	-				19,369
i-Pentane						0.01	0.026		0.0%	-				19,304
n-Pentane				0.0%	-	0	0		0.0%	-	0.003	0.009	2	19,322
Pentenes	0.059	0.152	0.152	0.3%	54	0.048	0.12	0.152	0.3%	60	0.196	0.544	105	19,341
Hexane Plus	4.25	12.9	12.9	23.9%	4,532	2.1	6.27	12.9	26.4%	5,017	6.49	21.1	4,004	18,976
Hydrogen Sulfide														
Carbonyl Sulfide														
Total	100.049	99.9	54.01862	1	15,112	98.933	100.065	48.787586	100.0%	16,732	99.957	100.09	15,827	15,890