

**40435 – Mayflower Pipeline Incident
ExxonMobil
Summary of Analytical Air Sampling
Conducted by CTEH
April 10, 2013**

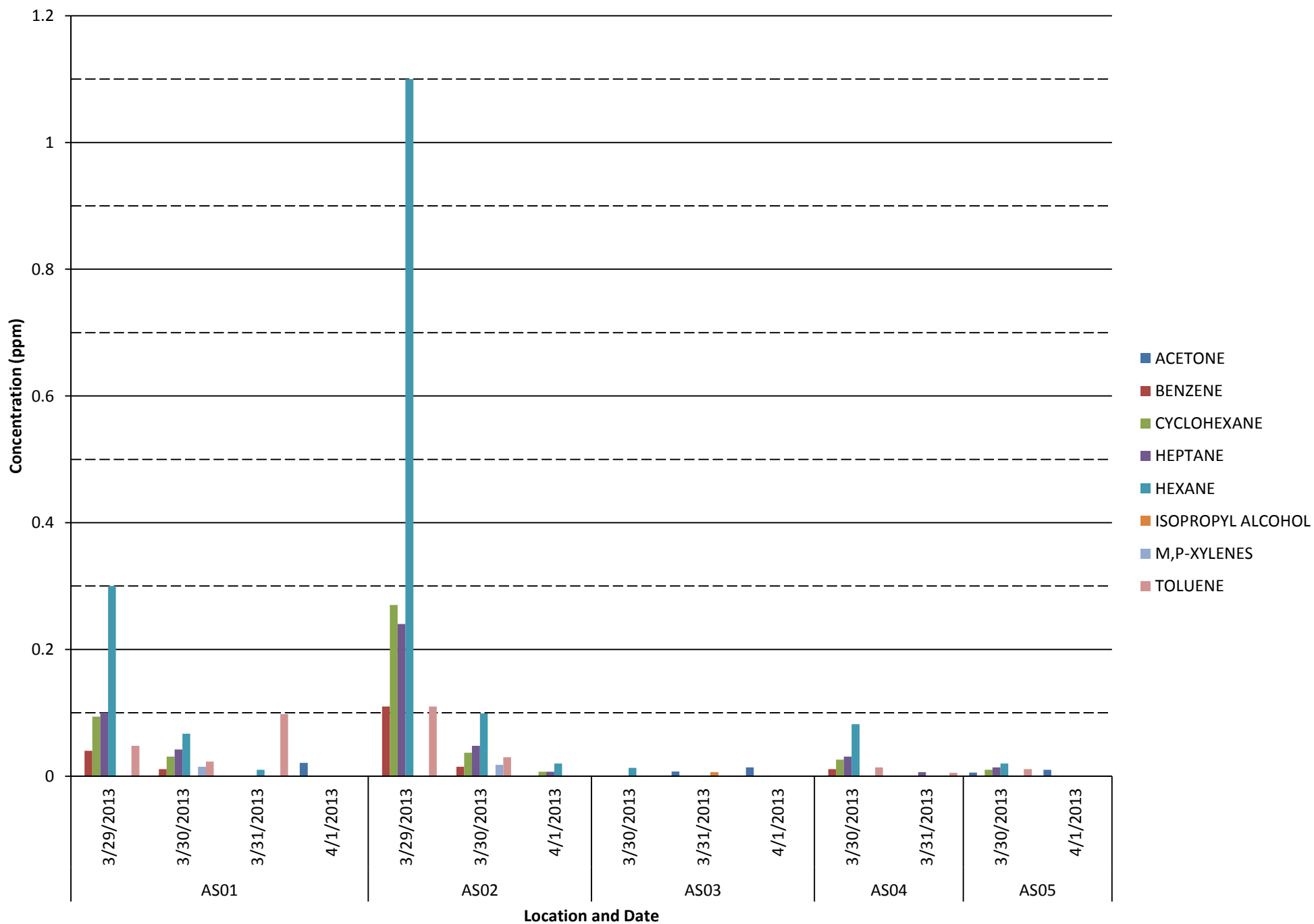
Note: The information provided below has not been processed by the QAQC department.

**Table 1:
Summary of Minican Target Analyte Detections**

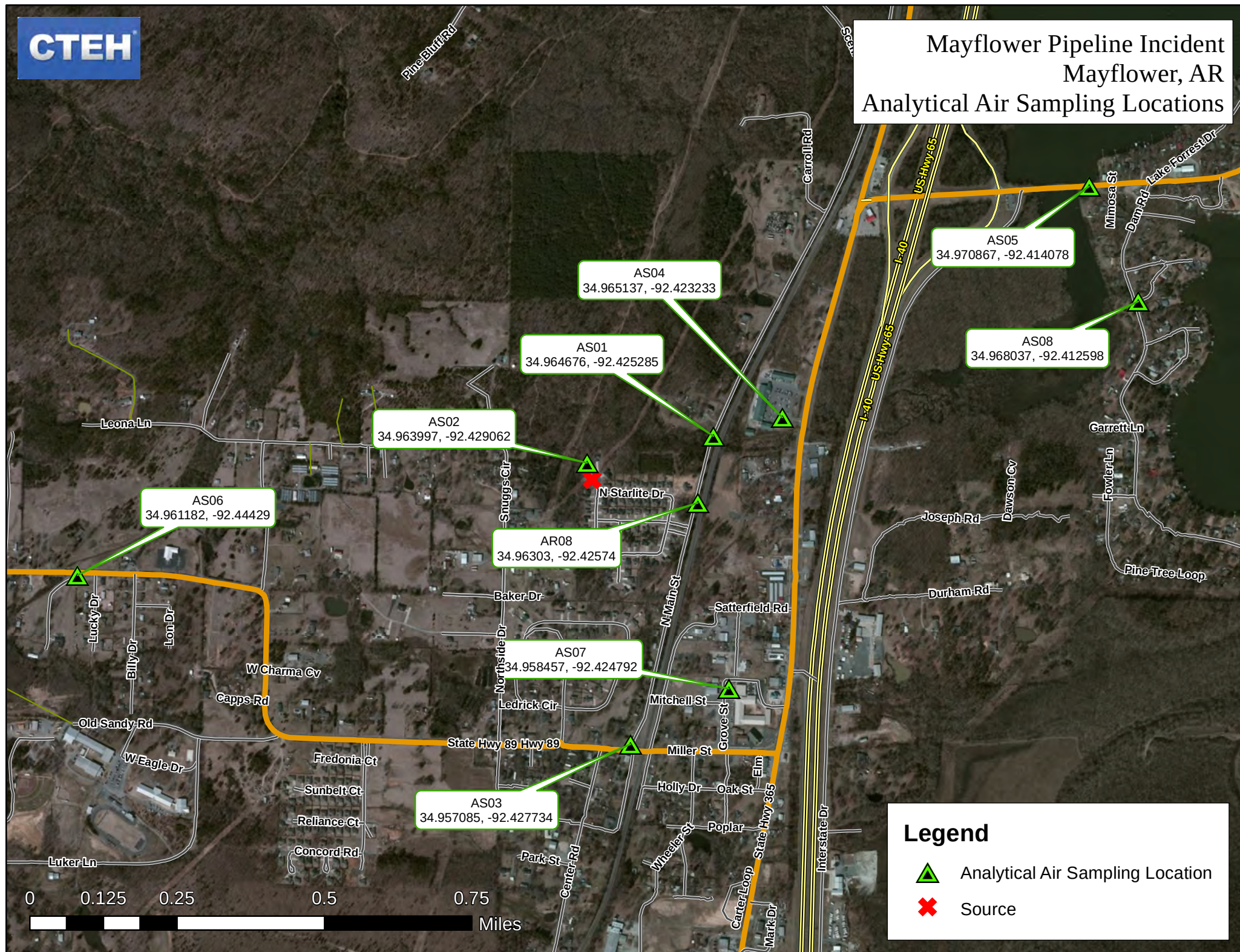
Analyte	Number of Samples	Number of Detections	Average Concentration (ppm)	Max Concentration (ppm)
ACETONE	61	5	0.012	0.021
BENZENE	61	5	0.037	0.110
CYCLOHEXANE	61	7	0.068	0.270
HEPTANE	61	8	0.061	0.240
HEXANE	61	10	0.171	1.100
ISOPROPYL ALCOHOL	61	1	0.006	0.006
M,P-XYLENES	61	2	0.017	0.018
TOLUENE	61	8	0.042	0.110

Figure 1:

Minican Target Analyte Concentrations



Mayflower Pipeline Incident Mayflower, AR Analytical Air Sampling Locations



**Table 2:
Minican Sampling Detections**

Sample:	MFAR0329MC0001	Location:	AS01	SampleDate:	3/29/2013
Analyte:	BENZENE			Result:	0.04 ppm
Analyte:	BUTANE			Result:	0.72 ppm
Analyte:	BUTANE, 2,2-DIMETHYL-			Result:	0.036 ppm
Analyte:	BUTANE, 2-METHYL-			Result:	1.1 ppm
Analyte:	CYCLOBUTANE, METHYL-			Result:	0.15 ppm
Analyte:	CYCLOHEXANE			Result:	0.094 ppm
Analyte:	CYCLOHEXANE, 1,3-DIMETHYL-, CIS-			Result:	0.026 ppm
Analyte:	CYCLOHEXANE, METHYL-			Result:	0.15 ppm
Analyte:	CYCLOPENTANE, 1,2-DIMETHYL-, CIS-			Result:	0.03 ppm
Analyte:	CYCLOPENTANE, 1,2-DIMETHYL-, TRANS-			Result:	0.037 ppm
Analyte:	CYCLOPENTANE, 1,3-DIMETHYL-			Result:	0.028 ppm
Analyte:	CYCLOPENTANE, METHYL-			Result:	0.24 ppm
Analyte:	HEPTANE			Result:	0.1 ppm
Analyte:	HEPTANE, 2-METHYL-			Result:	0.038 ppm
Analyte:	HEXANE			Result:	0.3 ppm
Analyte:	HEXANE, 2-METHYL-			Result:	0.065 ppm
Analyte:	HEXANE, 3-METHYL-			Result:	0.069 ppm
Analyte:	ISOBUTANE			Result:	0.39 ppm
Analyte:	OCTANE			Result:	0.043 ppm
Analyte:	PENTANE			Result:	1.1 ppm
Analyte:	PENTANE, 2-METHYL-			Result:	0.46 ppm
Analyte:	PENTANE, 3-METHYL-			Result:	0.25 ppm
Analyte:	PROPANE			Result:	0.039 ppm
Analyte:	TOLUENE			Result:	0.048 ppm
Sample:	MFAR0329MC0002	Location:	AS02	SampleDate:	3/29/2013
Analyte:	BENZENE			Result:	0.11 ppm
Analyte:	BUTANE			Result:	2.1 ppm
Analyte:	BUTANE, 2,2-DIMETHYL-			Result:	0.12 ppm
Analyte:	BUTANE, 2-METHYL-			Result:	3.4 ppm
Analyte:	CYCLOBUTANE, METHYL-			Result:	0.47 ppm
Analyte:	CYCLOHEXANE			Result:	0.27 ppm
Analyte:	CYCLOHEXANE, 1,3-DIMETHYL-, CIS-			Result:	0.061 ppm
Analyte:	CYCLOHEXANE, METHYL-			Result:	0.4 ppm
Analyte:	CYCLOPENTANE, 1,2-DIMETHYL-, CIS-			Result:	0.08 ppm
Analyte:	CYCLOPENTANE, 1,2-DIMETHYL-, TRANS-			Result:	0.097 ppm
Analyte:	CYCLOPENTANE, 1,3-DIMETHYL-			Result:	0.075 ppm
Analyte:	CYCLOPENTANE, METHYL-			Result:	0.73 ppm
Analyte:	HEPTANE			Result:	0.24 ppm

**Table 2:
Minican Sampling Detections**

Analyte:	HEPTANE, 2-METHYL-	Result:	0.087 ppm
Analyte:	HEXANE	Result:	1.1 ppm
Analyte:	HEXANE, 2-METHYL-	Result:	0.16 ppm
Analyte:	HEXANE, 3-METHYL-	Result:	0.17 ppm
Analyte:	ISOBUTANE	Result:	1.1 ppm
Analyte:	OCTANE	Result:	0.096 ppm
Analyte:	PENTANE	Result:	3.5 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	1.4 ppm
Analyte:	PENTANE, 3-METHYL-	Result:	0.74 ppm
Analyte:	PROPANE	Result:	0.12 ppm
Analyte:	TOLUENE	Result:	0.11 ppm
Sample: MFAR0330MC0003 Location: AS03 SampleDate: 3/30/2013			
Analyte:	BUTANE	Result:	0.011 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.023 ppm
Analyte:	HEXANE	Result:	0.007 ppm
Analyte:	ISOBUTANE	Result:	0.0068 ppm
Analyte:	PENTANE	Result:	0.021 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.0088 ppm
Sample: MFAR0330MC0004 Location: AS04 SampleDate: 3/30/2013			
Analyte:	BENZENE	Result:	0.011 ppm
Analyte:	BUTANE	Result:	0.14 ppm
Analyte:	BUTANE, 2,2-DIMETHYL-	Result:	0.009 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.26 ppm
Analyte:	CYCLOBUTANE, METHYL-	Result:	0.036 ppm
Analyte:	CYCLOHEXANE	Result:	0.026 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.045 ppm
Analyte:	CYCLOPENTANE, 1,2-DIMETHYL-, TRANS-	Result:	0.011 ppm
Analyte:	CYCLOPENTANE, 1,3-DIMETHYL-	Result:	0.0081 ppm
Analyte:	CYCLOPENTANE, 1,3-DIMETHYL-, CIS-	Result:	0.0088 ppm
Analyte:	CYCLOPENTANE, METHYL-	Result:	0.06 ppm
Analyte:	HEPTANE	Result:	0.031 ppm
Analyte:	HEPTANE, 2-METHYL-	Result:	0.012 ppm
Analyte:	HEXANE	Result:	0.082 ppm
Analyte:	HEXANE, 2-METHYL-	Result:	0.019 ppm
Analyte:	HEXANE, 3-METHYL-	Result:	0.02 ppm
Analyte:	ISOBUTANE	Result:	0.078 ppm
Analyte:	OCTANE	Result:	0.013 ppm
Analyte:	PENTANE	Result:	0.27 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.11 ppm

**Table 2:
Minican Sampling Detections**

Analyte:	PENTANE, 3-METHYL-	Result:	0.061 ppm
Analyte:	PROPANE	Result:	0.0092 ppm
Analyte:	TOLUENE	Result:	0.014 ppm
Sample:	MFAR0330MC0005	Location:	AS05
		SampleDate:	3/30/2013
Analyte:	ACETONE	Result:	0.0058 ppm
Sample:	MFAR0330MC0006	Location:	AS01
		SampleDate:	3/30/2013
Analyte:	BENZENE	Result:	0.011 ppm
Analyte:	BUTANE	Result:	0.076 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.19 ppm
Analyte:	CYCLOBUTANE, METHYL-	Result:	0.031 ppm
Analyte:	CYCLOHEXANE	Result:	0.031 ppm
Analyte:	CYCLOHEXANE, 1,3-DIMETHYL-, CIS-	Result:	0.017 ppm
Analyte:	CYCLOHEXANE, ETHYL-	Result:	0.012 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.069 ppm
Analyte:	CYCLOPENTANE, 1,2-DIMETHYL-, TRANS-	Result:	0.014 ppm
Analyte:	CYCLOPENTANE, METHYL-	Result:	0.061 ppm
Analyte:	HEPTANE	Result:	0.042 ppm
Analyte:	HEPTANE, 2-METHYL-	Result:	0.021 ppm
Analyte:	HEPTANE, 3-METHYL-	Result:	0.013 ppm
Analyte:	HEXANE	Result:	0.067 ppm
Analyte:	HEXANE, 2-METHYL-	Result:	0.021 ppm
Analyte:	HEXANE, 3-METHYL-	Result:	0.024 ppm
Analyte:	ISOBUTANE	Result:	0.046 ppm
Analyte:	M,P-XYLENES	Result:	0.015 ppm
Analyte:	NONANE	Result:	0.015 ppm
Analyte:	OCTANE	Result:	0.029 ppm
Analyte:	PENTANE	Result:	0.18 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.094 ppm
Analyte:	PENTANE, 3-METHYL-	Result:	0.053 ppm
Analyte:	TOLUENE	Result:	0.023 ppm
Sample:	MFAR0330MC0007	Location:	AS02
		SampleDate:	3/30/2013
Analyte:	BENZENE	Result:	0.015 ppm
Analyte:	BUTANE	Result:	0.22 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.39 ppm
Analyte:	CYCLOBUTANE, METHYL-	Result:	0.052 ppm
Analyte:	CYCLOHEXANE	Result:	0.037 ppm
Analyte:	CYCLOHEXANE, 1,3-DIMETHYL-, CIS-	Result:	0.018 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.076 ppm
Analyte:	CYCLOPENTANE, 1,2-DIMETHYL-, TRANS-	Result:	0.016 ppm

**Table 2:
Minican Sampling Detections**

Analyte:	CYCLOPENTANE, METHYL-	Result:	0.086 ppm
Analyte:	HEPTANE	Result:	0.048 ppm
Analyte:	HEPTANE, 2-METHYL-	Result:	0.023 ppm
Analyte:	HEPTANE, 3-METHYL-	Result:	0.014 ppm
Analyte:	HEXANE	Result:	0.099 ppm
Analyte:	HEXANE, 2-METHYL-	Result:	0.026 ppm
Analyte:	HEXANE, 3-METHYL-	Result:	0.029 ppm
Analyte:	ISOBUTANE	Result:	0.13 ppm
Analyte:	M,P-XYLENES	Result:	0.018 ppm
Analyte:	NONANE	Result:	0.016 ppm
Analyte:	OCTANE	Result:	0.032 ppm
Analyte:	PENTANE	Result:	0.38 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.16 ppm
Analyte:	PENTANE, 3-METHYL-	Result:	0.085 ppm
Analyte:	PROPANE	Result:	0.014 ppm
Analyte:	TOLUENE	Result:	0.03 ppm
Sample: MFAR0330MC0008 Location: AS03 SampleDate: 3/30/2013			
Analyte:	BUTANE, 2-METHYL-	Result:	0.017 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.0065 ppm
Analyte:	HEXANE	Result:	0.0063 ppm
Analyte:	PENTANE	Result:	0.012 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.0066 ppm
Sample: MFAR0330MC0010 Location: AS05 SampleDate: 3/30/2013			
Analyte:	BUTANE	Result:	0.017 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.049 ppm
Analyte:	CYCLOHEXANE	Result:	0.01 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.025 ppm
Analyte:	CYCLOPENTANE, METHYL-	Result:	0.017 ppm
Analyte:	HEPTANE	Result:	0.014 ppm
Analyte:	HEXANE	Result:	0.02 ppm
Analyte:	OCTANE	Result:	0.012 ppm
Analyte:	PENTANE	Result:	0.041 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.024 ppm
Analyte:	TOLUENE	Result:	0.011 ppm
Sample: MFAR0331MC0011 Location: AS01 SampleDate: 3/31/2013			
Analyte:	BUTANE	Result:	0.0064 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.019 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.0054 ppm
Analyte:	CYCLOPENTANE, METHYL-	Result:	0.005 ppm

**Table 2:
Minican Sampling Detections**

Analyte:	HEXANE	Result:	0.01 ppm
Analyte:	PENTANE	Result:	0.013 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.0063 ppm
Analyte:	TOLUENE	Result:	0.098 ppm
Sample: MFAR0331MC0012 Location: AS02 SampleDate: 3/31/2013			
Analyte:	BUTANE	Result:	0.0092 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.025 ppm
Analyte:	ISOBUTANE	Result:	0.0058 ppm
Analyte:	PENTANE	Result:	0.017 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.0083 ppm
Sample: MFAR0331MC0013 Location: AS03 SampleDate: 3/31/2013			
Analyte:	ACETONE	Result:	0.0074 ppm
Analyte:	ISOPROPYL ALCOHOL	Result:	0.0062 ppm
Sample: MFAR0331MC0014 Location: AS04 SampleDate: 3/31/2013			
Analyte:	BUTANE, 2-METHYL-	Result:	0.017 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.0068 ppm
Analyte:	HEPTANE	Result:	0.0062 ppm
Analyte:	PENTANE	Result:	0.011 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.0071 ppm
Analyte:	TOLUENE	Result:	0.0052 ppm
Sample: MFAR0331MC0015 Location: AS05 SampleDate: 3/31/2013			
Analyte:	BUTANE, 2-METHYL-	Result:	0.0096 ppm
Analyte:	PENTANE	Result:	0.0057 ppm
Sample: MFAR0401MC0016 Location: AS01 SampleDate: 4/1/2013			
Analyte:	ACETONE	Result:	0.021 ppm
Sample: MFAR0401MC0017 Location: AS02 SampleDate: 4/1/2013			
Analyte:	BUTANE	Result:	0.056 ppm
Analyte:	BUTANE, 2-METHYL-	Result:	0.089 ppm
Analyte:	CYCLOBUTANE, METHYL-	Result:	0.01 ppm
Analyte:	CYCLOHEXANE	Result:	0.0069 ppm
Analyte:	CYCLOHEXANE, METHYL-	Result:	0.011 ppm
Analyte:	CYCLOPENTANE, METHYL-	Result:	0.013 ppm
Analyte:	HEPTANE	Result:	0.0069 ppm
Analyte:	HEXANE	Result:	0.02 ppm
Analyte:	ISOBUTANE	Result:	0.032 ppm
Analyte:	PENTANE	Result:	0.084 ppm
Analyte:	PENTANE, 2-METHYL-	Result:	0.028 ppm
Analyte:	PENTANE, 3-METHYL-	Result:	0.015 ppm
Sample: MFAR0401MC0018 Location: AS03 SampleDate: 4/1/2013			



Table 2:
Minican Sampling Detections

Analyte:	ACETONE	Result:	0.014 ppm
Sample:	MFAR0401MC0020	Location:	AS05
		SampleDate:	4/1/2013
Analyte:	ACETONE	Result:	0.01 ppm