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#### WEEK 2 REPORT – LOCAL SOURCES AND ASSOCIATED GRAPHS

### **DECEMBER 22<sup>ND</sup>, 2016**

#### **Summary**

Mobile lab operated between December 22<sup>nd</sup> 5:00 PM and December 23<sup>rd</sup> 5:00 AM. The mobile lab spent the majority of the day around the AP farm depending on the wind. Some time was spent near AY and some time was spent driving the greater west tank farm area. Emissions from HVAC systems were evident as well as generators. The PTR-TOF was offline for an hour with an unknown communication error. Field analyst submitted the behavior to the instrument manufacturer.

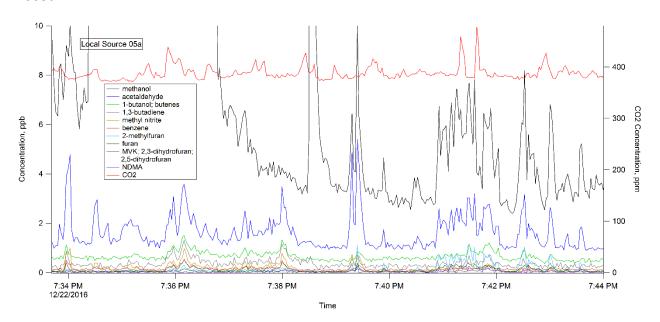
### **December 22<sup>nd</sup> Local Sources**

LS05a,	1.01 bar, 29	methanol: 98.1 ppb
12/22/16,	F, wind SSW	acetaldehyde: 5.4 ppb
7:39:31 PM	2 mph	1-butanol + butenes: 1.5 ppb
		1,3-butadiene: 1.3 ppb
		methyl nitrite: 1 ppb
		benzene: 0.5 ppb
		2-methylfuran: 1.2 ppb
		furan: 0.4 ppb
		MVK; 2,3-dihydrofuran; 2,5-dihydrofuran: 0.5 ppb
		NDMA: 0.3 ppb
		CO2: 497 ppm
		Mobile lab detected elevated levels of several compounds
		over about five minutes. Field notes indicate a proximity to
		a generator along the S fence line of AP farm.
LS05b,	1.01 bar, 28	methanol: 452 ppb
12/22/16,	F, wind SE	CO2: 377 ppm
8:54:32 PM	1.3 mph	Detected a source of methanol that exceeds OEL.

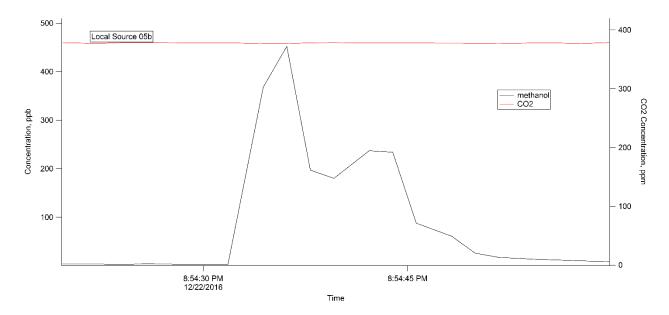
LS05c,	1.01 bar, 29	acetaldehyde: 8.36 ppb
12/23/16,	F, wind SE 3	methanol: 5.38 ppb
3:23:05 AM	mph	methyl nitrite: 2.0 ppb
		1-butanol + butenes: 1.3 ppb
		1,3-butadiene: 0.8 ppb
		benzene: 0.8 ppb
		CO2: 392 ppm
		Detected a series of short spikes of various compounds over
		the span of 90 seconds. A correlating rise in CO2 could
		indicate that this source is combustion exhaust.

# December 22<sup>nd</sup> Graphs

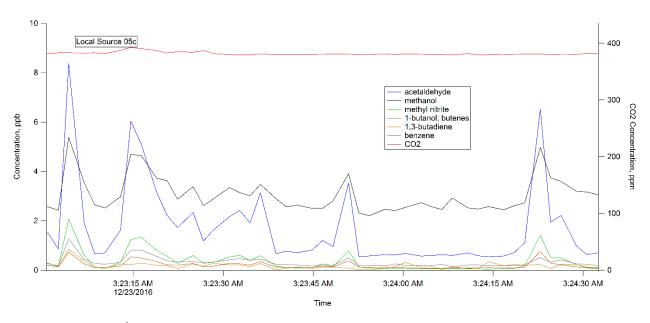
#### LS05a



#### LS05b



#### LS05c



## December 22<sup>nd</sup> Maps

#### **200E**



#### **DECEMBER 26, 2016**

#### Summary

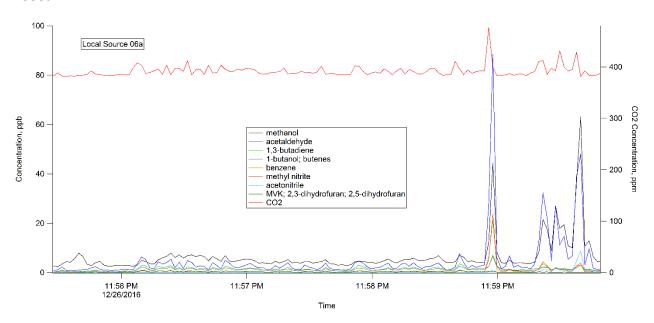
Mobile lab operated between December 26<sup>th</sup> 5:00 PM and December 27<sup>th</sup> 5:00 AM. The mobile lab spent the majority of the day around the AP and AY stacks, relocating to keep downwind. The PTR-TOF was offline for an hour with an unknown communication error similar to the previous day. Awaiting comment from instrument manufacturer concerning the cause.

## December 26<sup>th</sup>, 2016 Local Sources

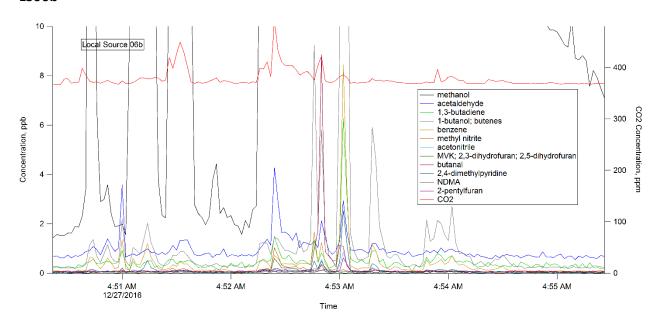
LS06a,	1.02 bar, 30	methanol: 63.1 ppb
12/26/16,	F, wind ESE	acetaldehyde: 88.5 ppb
11:56:09 PM	10 mph	1,3-butadiene: 7.0 ppb
		1-butanol + butenes: 6.6 ppb
		benzene: 21.4 ppb
		methyl nitrite: 23.8 ppb
		acetonitrile: 0.8 ppb
		MVK + 2,3-dihydrofuran + 2,5-dihydrofuran: 1.0 ppb
		CO2: 476 ppm
		Detected an elevated background of several compounds followed
		by several short spikes, accompanied by rises in CO2. The signal for
		MVK + 2,3-dihydrofuran + 2,5-dihydrofuran exceeded OEL.
LS06b,	1.01 bar, 40	methanol: 975.7 ppb
12/27/16,	F, wind NNE	acetaldehyde: 4.3 ppb
4:51:00 AM	12 mph	1,3-butadiene: 6.3 ppb
	·	1-butanol; butenes: 48.5 ppb
		benzene: 8.4 ppb methyl nitrite: 1.0 ppb
		acetonitrile: 0.8 ppb
		MVK; 2,3-dihydrofuran; 2,5-dihydrofuran: 0.6 ppb
		butanal: 8.8 ppb
		2,4-dimethylpyridine: 0.5 ppb
		NDMA: 0.3 ppb
		2-pentylfuran: 0.6 ppb
		CO2: 491 ppm T
		This source was observed while refueling at a gas station in Pasco.
		The signals for methanol and NDMA exceed OEL.
	l	

# December 26<sup>th</sup> Graphs

#### LS06a



#### LS06b



## December 26<sup>th</sup> Maps

#### 200E



#### Town



## **DECEMBER 27<sup>TH</sup>, 2016**

#### **Summary**

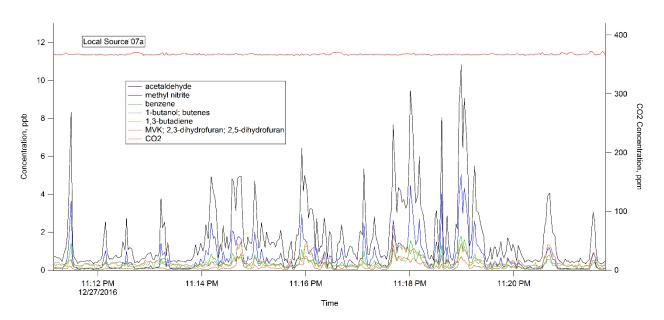
Mobile lab operated between December 27<sup>th</sup> 5:00 PM and December 28<sup>th</sup> 5:00 AM. AY-102 waste retrieval began around 7:30 PM. The mobile lab spent the majority of the time sampling downwind of AP stacks and less time around AY.

## **December 27<sup>th</sup> Local Sources**

LS07a,	1.02 bar, 36	acetaldehyde: 10.8 ppb
12/27/16,	F, wind SSE 5	methyl nitrite: 5.0 ppb
11:11:38 PM	mph	benzene: 1.8 ppb
		1-butanol; butenes: 1.8 ppb
		1,3-butadiene: 2.3 ppb
		MVK; 2,3-dihydrofuran; 2,5-dihydrofuran: 1.3 ppb
		CO2: 370 ppm
		Detected a series of spikes along several compounds over the
		course of around 15 minutes. The signal for MVK + 2,3-
		dihydrofuran + 2,5-dihydrofuran exceeded OEL.

## **December 27th Graphs**

#### LS07a



## December 27<sup>th</sup> Maps

#### 200E



## **DECEMBER 28<sup>TH</sup>, 2016**

#### **Summary**

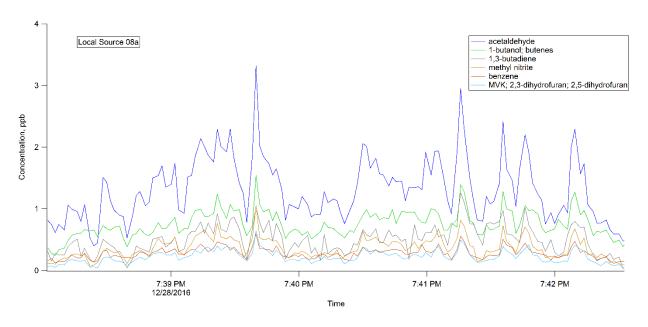
Mobile lab operated between December 28<sup>th</sup> 5:00 PM and December 29<sup>th</sup> 5:00 AM. AY-102 waste retrieval began around 7:00 PM. The mobile lab spent the majority of the time sampling downwind of AP or AY stacks depending on the wind. No CO2 data was collected for this day (CAPA #1665)

### **December 28th Local Sources**

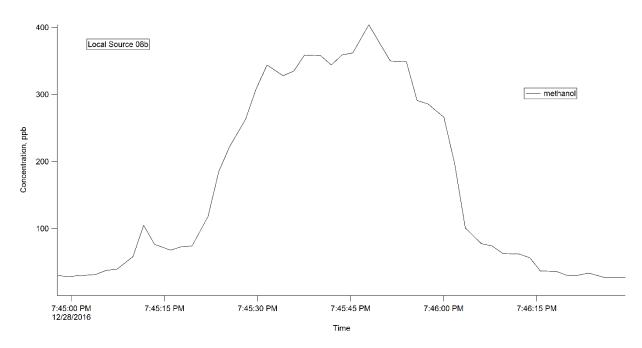
LS08a,	1.03 bar, 33	acetaldehyde: 3.3 ppb
12/28/16,	F, wind SSE	1-butanol; butenes: 1.5 ppb
7:39:39 PM	1 mph	1,3-butadiene: 1.3 ppb
		methyl nitrite: 1.0 ppb
		benzene: 0.6 ppb
		MVK; 2,3-dihydrofuran; 2,5-dihydrofuran: 0.6 ppb
		CO2 data unavailable for 12/28/16. Detected a rise in several
		compounds over the course of around 4 minutes. The signal for
		MVK + 2,3-dihydrofuran + 2,5-dihydrofuran exceeded OEL.
LS08b,	1.03 bar, 32	methanol: 404 ppb
12/28/16,	F, wind SSE	CO2 data unavailable for 12/28/16. Detected a spike in methanol
7:45:12 PM	1 mph	that spanned around one minute. The signal for methanol
		exceeded OEL.

# December 28<sup>th</sup> Graphs

#### LS08a



#### LS08b



## December 28<sup>th</sup> Maps

#### 200E

