

Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name:

From: 8/16/19
7:00

To: 8/16/19
18:58



On Site, Southwest Corner of Pile							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 1	VOC	No	606	1	0 - 1444 ppb	2.4 ppb	1,000 ppb
	CO	No	606	1	0 - 9 ppm	0 ppm	83 ppm
	H ₂ S	No	606	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	606	606	20.9 - 20.9%	20.9%	<19.5 or >23%
	LEL	No	606	0	0 - 0%	0%	10%
	HCN	No	606	606	0.1 - 1.3 ppm	0.4 ppm	7.1 ppm%

Peacock Collision							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
DustTrak 1	PM-2.5	Good	13,831	13,372	0 - 53 µg/m ³	7.1 µg/m ³	See SOG #: T106

On Site, Northwest Corner of Pile							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 2	VOC	No	603	5	0 - 1108 ppb	2.4 ppb	1,000 ppb
	CO	No	603	42	0 - 10 ppm	0.3 ppm	83 ppm
	H ₂ S	No	603	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	603	603	20.4 - 20.9%	20.6%	<19.5 or >23%
	LEL	No	603	0	0 - 0 %	0%	10%
	HCN	No	603	219	0 - 1.1 ppm	0.1 ppm	7.1 ppm

Able Contracting Workshop, Northeast of Pile							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 3	VOC	No	607	1	0 - 93 ppb	0.2 ppb	1,000 ppb
	CO	No	607	0	0 - 0 ppm	0 ppm	83 ppm
	H ₂ S	No	607	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	607	607	20.9 - 21.3%	21.1%	<19.5 or >23%
	LEL	No	607	0	0 - 0%	0%	10%
	HCN	No	607	605	0 - 0.6 ppm	0.3 ppm	7.1 ppm

Grace Costal Church							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
DustTrak 3	PM-2.5	Moderate	693	693	3 - 20 µg/m ³	9.2 µg/m ³	See SOG #: T106

Forrest Concrete							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
AreaRAE 4	VOC	No	606	0	0 - 0 ppb	0 ppb	1,000 ppb
	CO	No	606	1	0 - 4 ppm	0 ppm	83 ppm
	H ₂ S	No	606	0	0 - 0 ppm	0 ppm	0.5 ppm
	O ₂	No	606	606	20.4 - 20.9%	20.7%	<19.5 or >23%
	LEL	No	606	0	0 - 0%	0%	10%
	HCN	No	606	0	0 - 0.1 ppm	0 ppm	7.1 ppm

Sun City							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
EBAM 1	PM-2.5	Moderate	664	418	0 - 104 µg/m ³	12.9 µg/m ³	See SOG #: T106

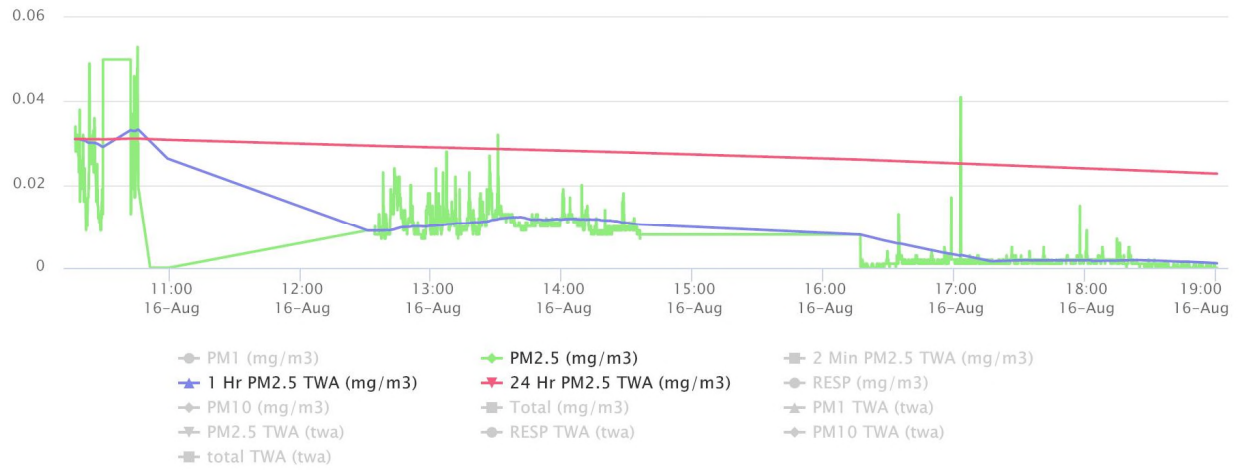
Brooke Mill Apartments							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
EBAM 2	PM-2.5	Good	650	368	0 - 90 µg/m ³	7.6 µg/m ³	See SOG #: T106

EPA Mobile Command Post							
Instrument	Analyte	Period Average Exceedances	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level (PEL/TLV/60 min AEGL)
EBAM 3	PM-2.5	Moderate	739	452	0 - 135 µg/m ³	14.4 µg/m ³	See SOG #: T106

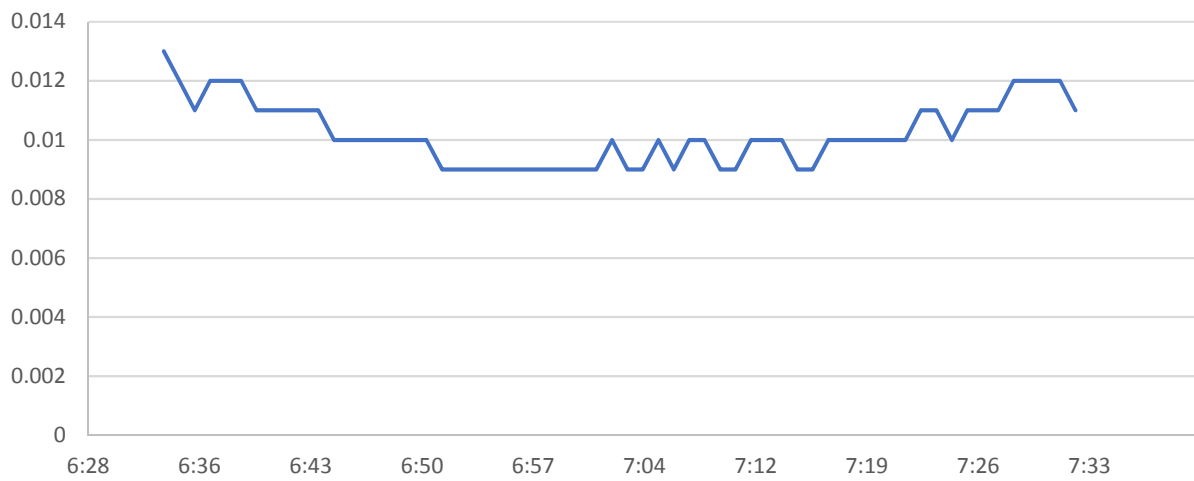
Notes:

%	Percent	O ₂	Oxygen
<	Less than	PEL	Permissible exposure limit
>	Greater than	ppb	Parts per billion
AEGL	Acute Exposure Guideline Levels for Airborne Chemicals	ppm	Parts per million
CO	Carbon monoxide	PM	Particulate matter
H ₂ S	Hydrogen Sulfide	SOG	Standard Operating Guidelines
HCN	Hydrogen Cyanide	TLV	Threshold limit value
LEL	Lower Explosive Level	µg/m ³	Micrograms per cubic meter
min	Minute	VOC	Volatile organic compound

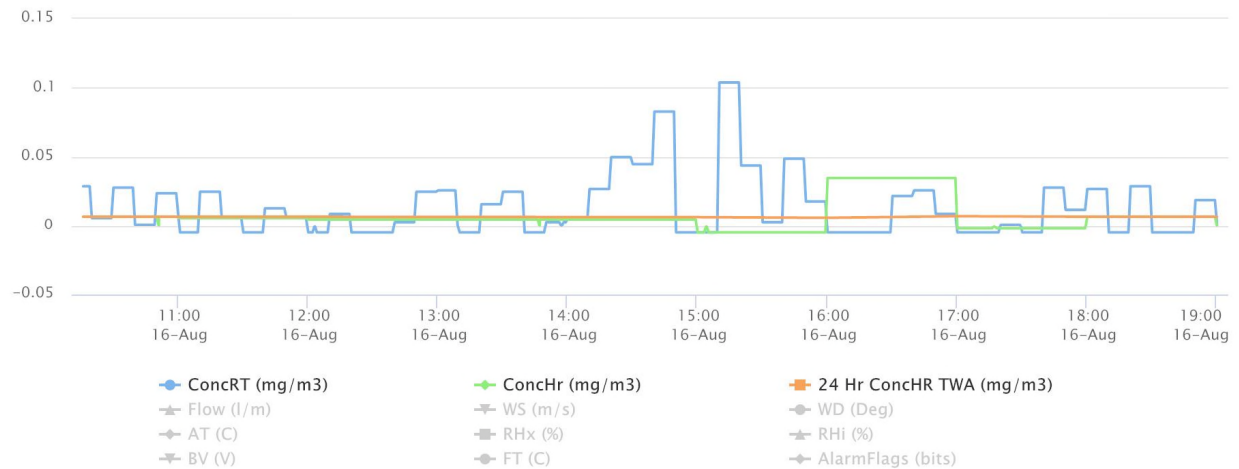
8/16/19 DAY Data for DustTrak 1 (PM_{2.5}) - Peacock Collision



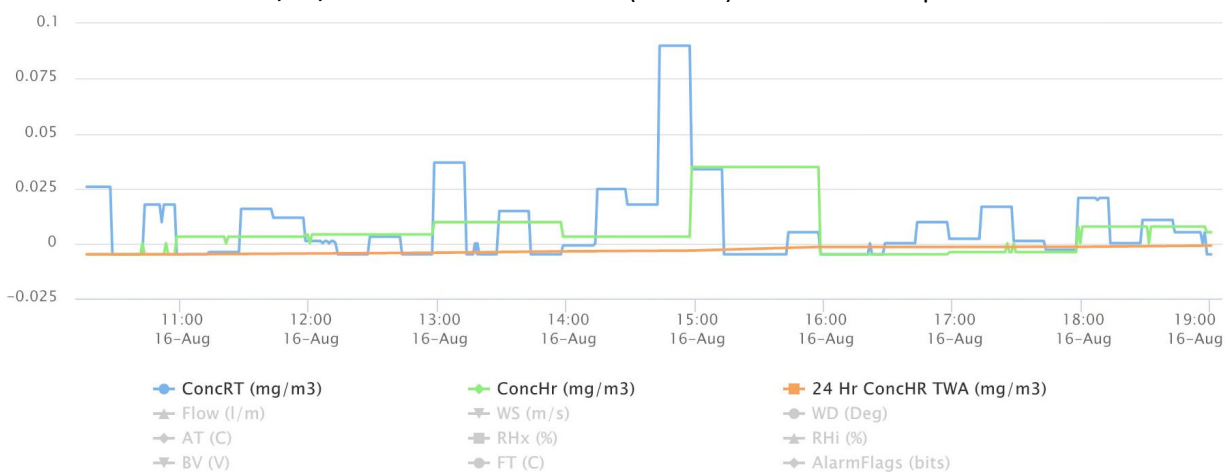
8/16/19 DAY Data for DustTrak 3 (PM_{2.5}) – Grace Costal Church



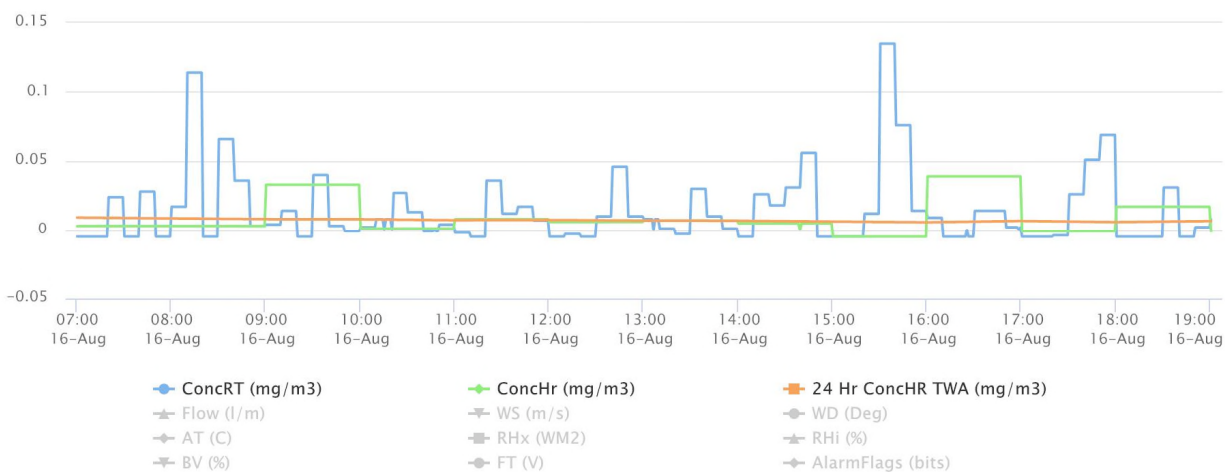
8/16/19 DAY Data for EBAM 1 (ConcRT) – Sun City



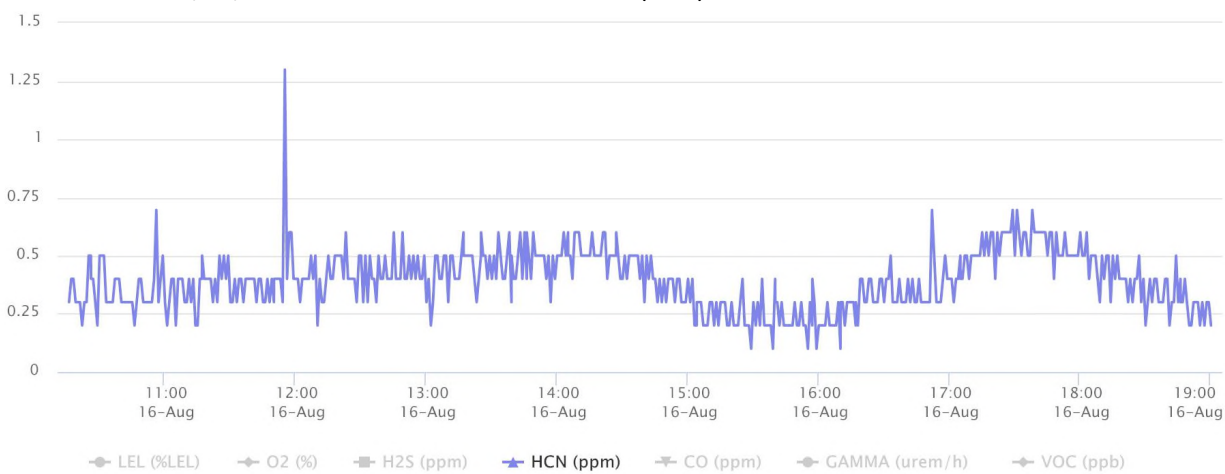
8/16/19 DAY Data for EBAM 2 (ConcRT) – Brooke Mill Apartments



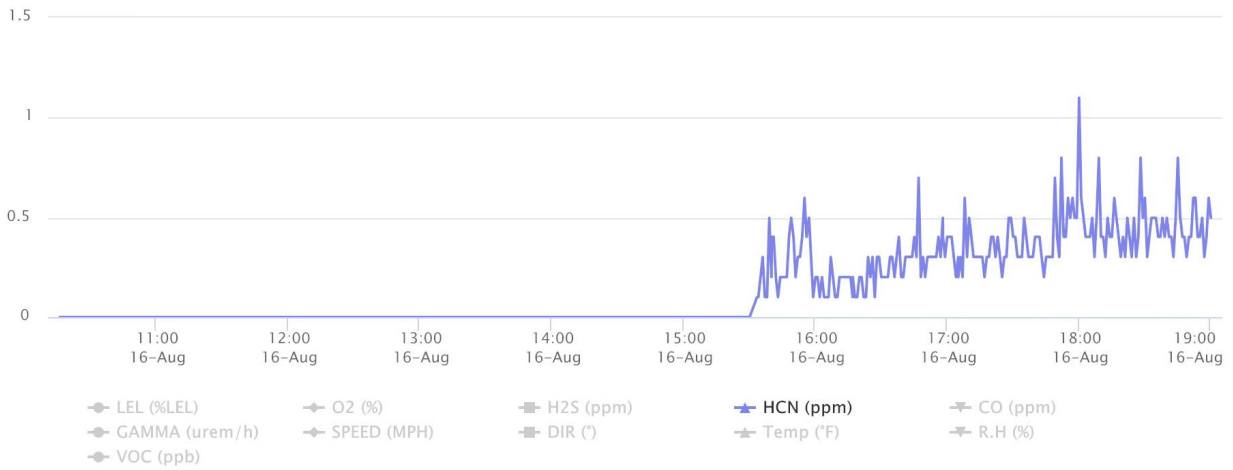
8/16/19 DAY Data for EBAM 3 (ConcRT) – EPA Mobile Command Post



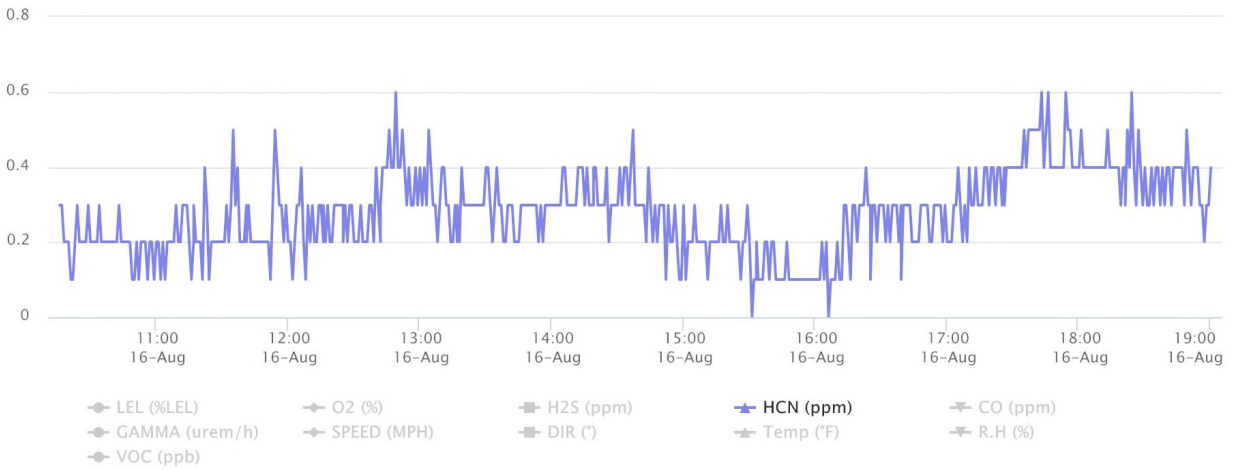
8/16/19 DAY Data for AREARAE PRO 1 (HCn) – Southwest of Pile



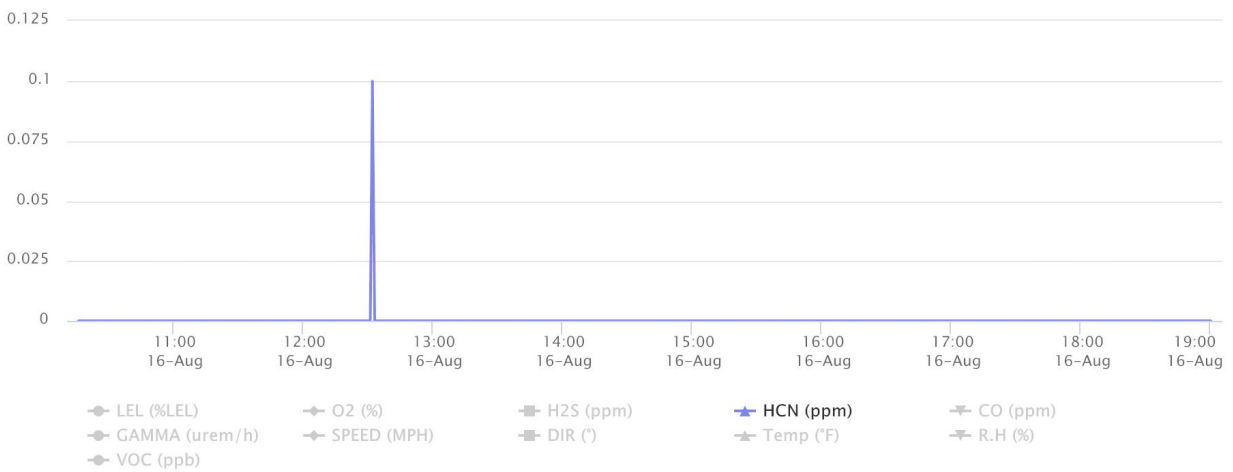
8/16/19 DAY Data for AREARAE PRO 2 (HCn) – Northwest of Pile



8/16/19 DAY Data for AREARAE PRO 3 (HCn) – Northeast of Pile



8/16/19 DAY Data for AREARAE PRO 4 (HCn) – Forrest Concrete



Threshold Values and Air Quality Index Categories for PM2.5

Level of Health Concern	Particulate Matter ≤2.5 microns measured in µg/m ³		Interpretation
	1 hour average	24 hour average	
Good	0.0- 40.0	0.0- 12.0	Air quality is considered satisfactory, and air pollution poses little or no risk
Moderate	40.1- 80.0	12.1- 35.4	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive groups	80.1- 175.0	35.5- 55.4	Members of sensitive groups may experience health effects. The general public is not likely to be affected.
Unhealthy	175.1- 300.0	55.5- 150.4	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	300.1- 500.0	150.5- 250.4	Health warnings of emergency conditions. The entire population is more likely to be affected.
Hazardous	>500.0	>250.5	Health alert: everyone may experience more serious health effects

- Threshold values taken from original EPA AQI online calculator found at http://airnow.gov/index.cfm?action=resources.aqi_conc_calc for PM2.5 (24 hour) and Idaho Department of Environmental Quality AQI for PM2.5 (1 hour) taken from <http://app.airsis.com/usfs/aqi.asp>.
- Recommendations are from the EPA Air Now web site.
- People who are unusually sensitive to air pollution are a subset of Sensitive Individuals. Unusually sensitive to air pollution can be defined as the very young, the elderly, pregnant women, and the immunocompromised.
- Sensitive individuals defined as people with lung disease, older adults and children who are at a greater risk from exposure to ozone; and persons with heart and lung disease, older adults and children who are at greater risk from the presence of particles in the air.