

Kinder Morgan Gasoline Pipeline Release
Pelham, AL
Preliminary Summary of Air Monitoring Results
August 24, 2014

Prepared by
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Introduction

On August 23, 2014, Center for Toxicology and Environmental Health, LLC (CTEH®) was contacted by Kinder Morgan to initiate air monitoring in support of response activities following a gasoline pipeline release in Pelham, AL. Site monitoring consisted of manually-logged real-time monitoring.

This submittal summarizes air monitoring data for August 24, 2014 00:29 to August 24, 2014 17:00.

Real-time Air Monitoring

All instrumentation was calibrated at least once per day or per manufacturer's recommendations. Manually-logged monitoring was conducted for benzene, gasoline, hexane, percent of the Lower Explosive Limit (LEL), oxygen (O₂), and Volatile Organic Compounds (VOCs), with instruments such as RAESystems® MultiRAEs (MRs), RAESystems® UltraRAEs, and Gastec® colorimetric tubes. Table 1 summarizes data for manually-logged real-time readings in the Work Area.

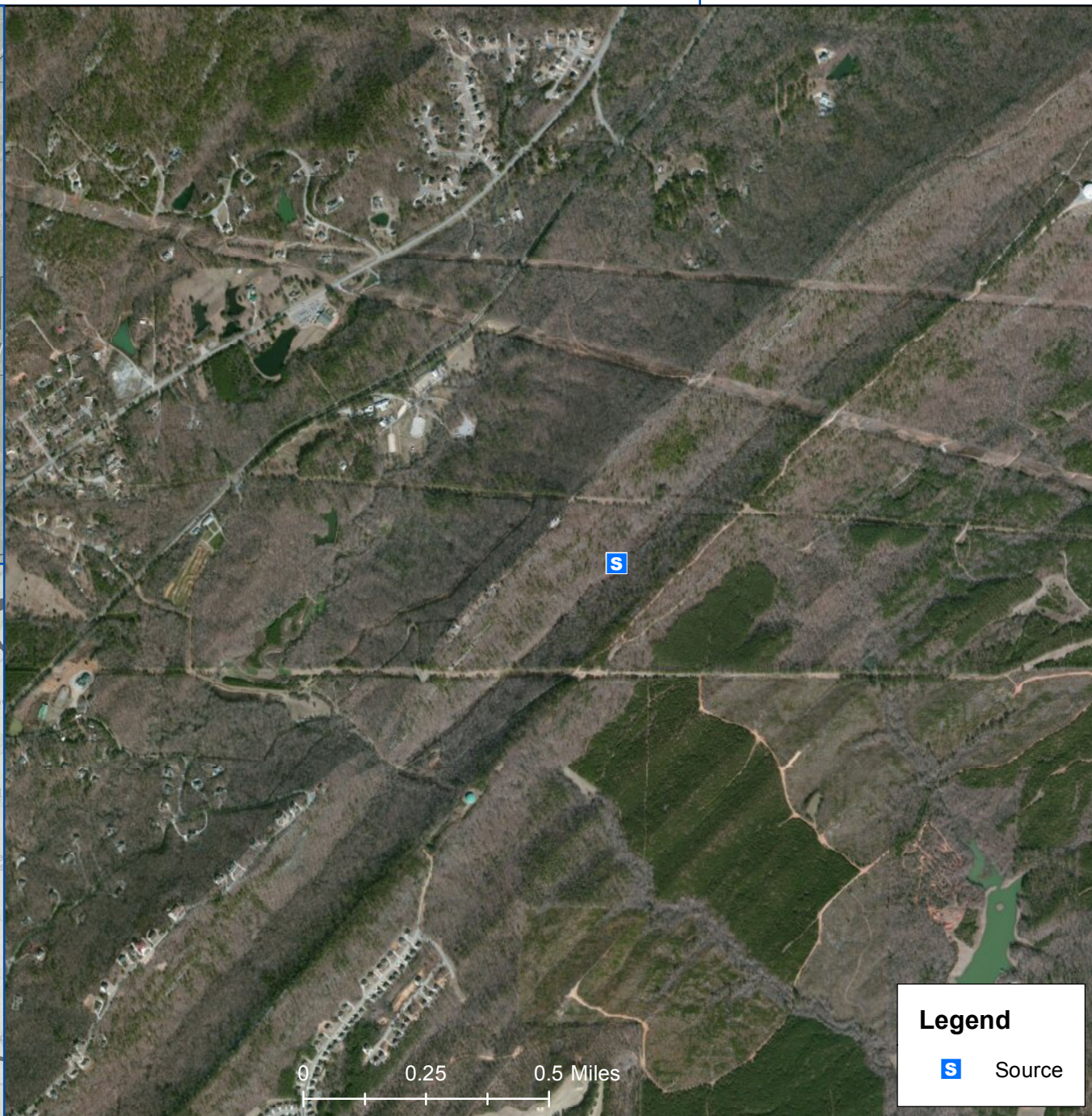
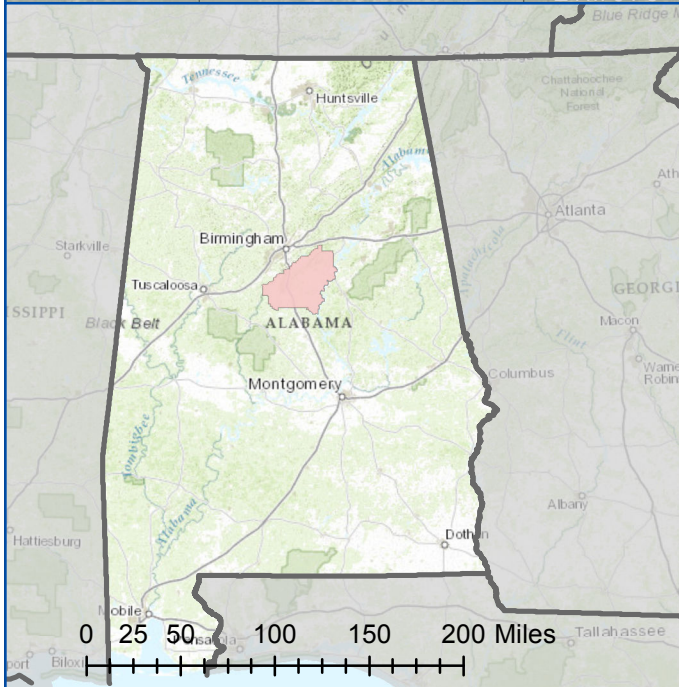
Table 1: Work Area - Manually-Logged Real-Time Air Monitoring Summary¹
August 24, 2014 00:29 – August 24, 2014 17:0

Analyte	Instrument	Count of Readings	Count of Detections	Average of Detections	Range ²
Benzene	Gastec #121L	4	0	NA	<0.05 ppm
	UltraRAE	13	8	0.67 ppm	0.05 - 3 ppm
Gasoline	Gastec #101L	1	0	NA	<5 ppm
Hexane	Gastec #102L	1	0	NA	<1 ppm
LEL	MultiRAE Plus	11	0	NA	<1 %
O ₂	MultiRAE Plus	4	4	20.9%	20.9 - 20.9 %
VOC	MultiRAE Plus	15	12	9.8 ppm	0.2 - 57.1 ppm

¹Please note: The data set displayed here has not undergone complete QA/QC analysis and is presented in a preliminary format.

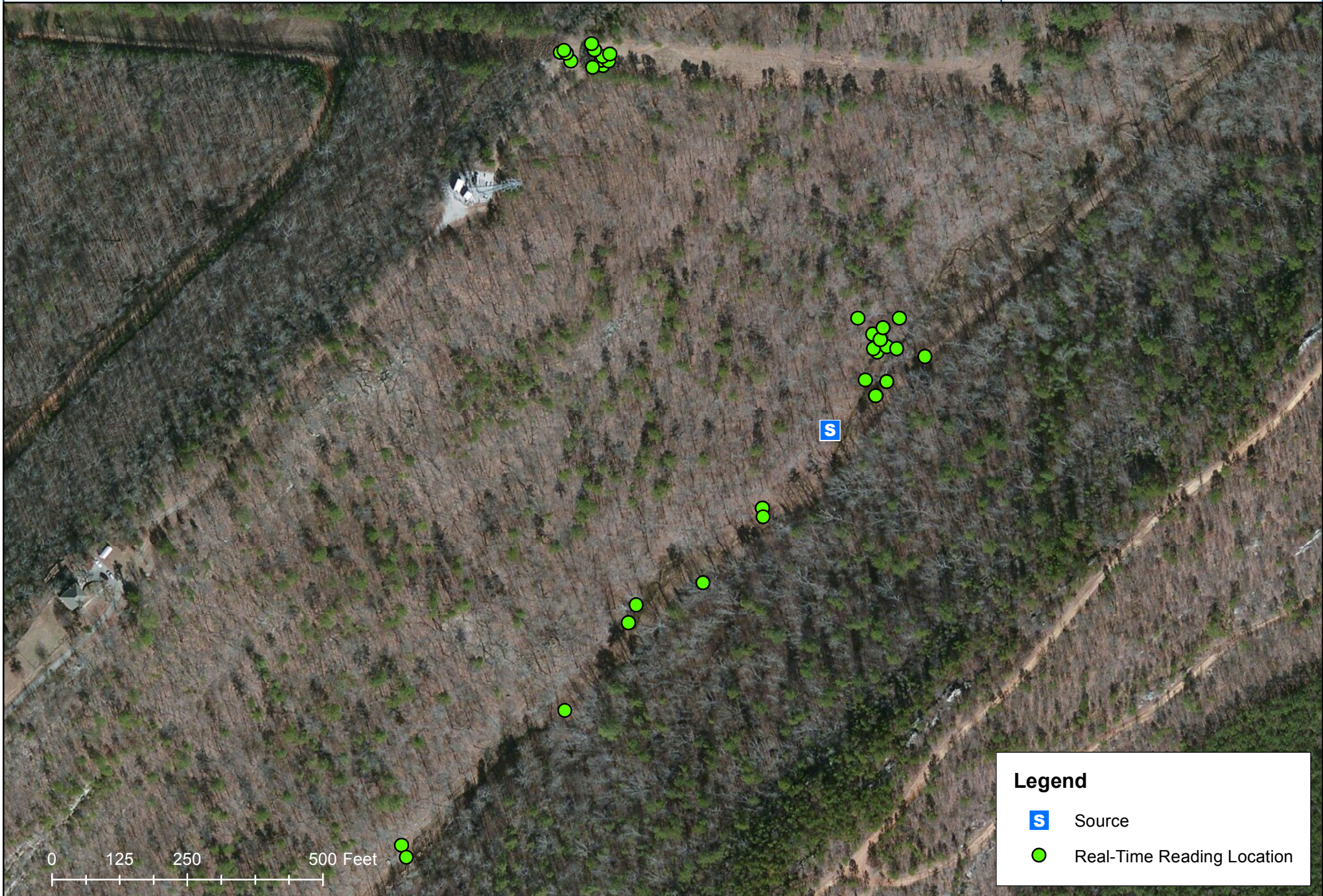
²Maximum detections preceded by the "<" symbol are considered non-detects at or above reporting limit value to the right.

Appendix A: Incident Maps

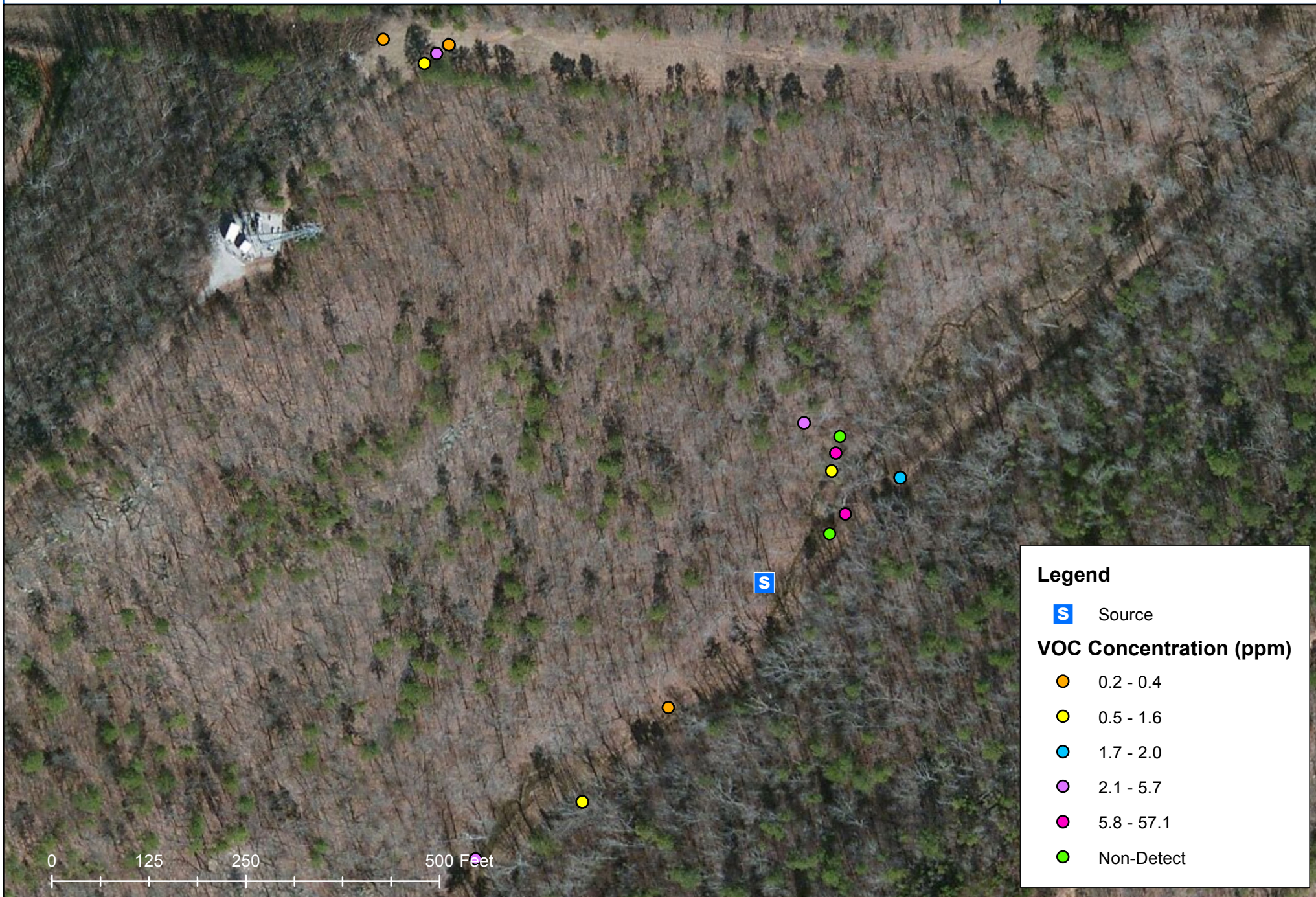


Legend

S Source



0 125 250 500 Feet

**Legend****S** Source**VOC Concentration (ppm)**

- Orange circle: 0.2 - 0.4
- Yellow circle: 0.5 - 1.6
- Cyan circle: 1.7 - 2.0
- Purple circle: 2.1 - 5.7
- Magenta circle: 5.8 - 57.1
- Green circle: Non-Detect

