

# Soil Assessment Results

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to the Town of Huntersville  
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# Soil Sampling Overview

- **Conducted for Town of Huntersville for OM Study**
- **GeoSpatial Study Indicated Potential Tissue Densities Northern and Western Huntersville**
- **No known chemical associations with OM**

# Sample Locations

## Four Locations

- Hopewell High School (Western Huntersville)
- Stephens Road Nature Preserve (Western Huntersville)
- North Mecklenburg Park (Northern Huntersville)
- Huntersville Fire Station No. 3 (Southeastern Huntersville  
– background location)
- Three soil borings per location
- One soil sample per boring

# Hopewell High Sample Locations



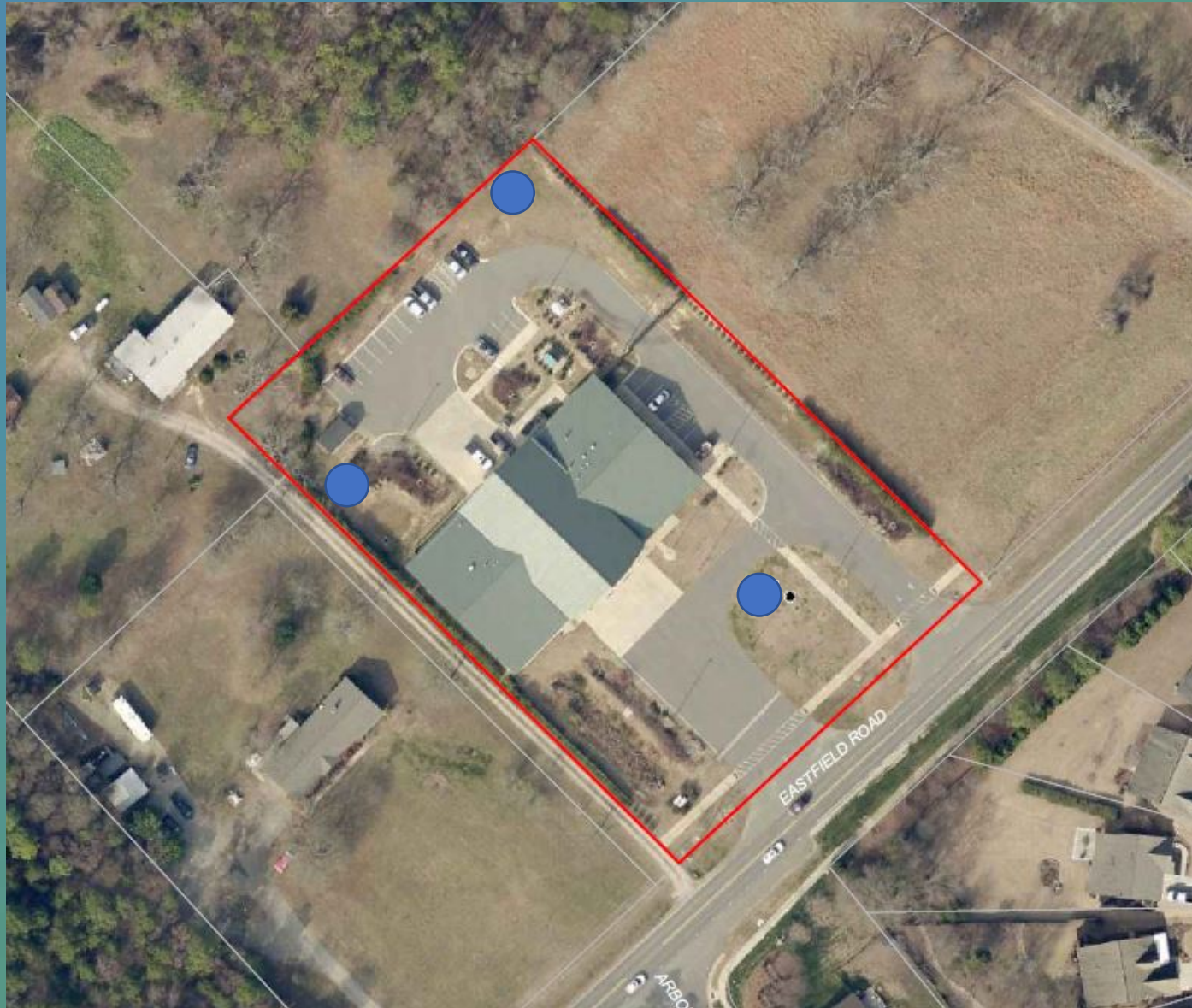
# Stephens Road Nature Preserve Sample Locations



# North Mecklenburg Park Sample Locations



# Huntersville Fire Dept No. 3 Sample Locations



# Sampling Methods

- Used stainless-steel hand auger
- Bored to 3 feet below the ground surface
- Screened soil for visual staining, odors, and coal residuals
- Screened soil for volatile organic vapors (using a photoionization detector)
- No obvious indications of impact based on field screening
- Soil samples collected from 0 to 1 ft





# Soil Analysis

## Analytical Methods

- Volatile organic compounds by EPA Method 8260 (67 compounds)
- Semi-volatile organic compounds by EPA Method 8270 (69 compounds)
- RCRA metals by EPA Method 6020/7471 (8 compounds)

Note: Samples Analyzed by Pace Analytical Services, LLC of Huntersville

# Soil Sampling Results

- Results compared to NC Department of Environmental Quality Preliminary Soil Remediation Goals (PSRGs)
- No volatile organic compound impacts detected in soil samples
  - Trace acetone detected is not likely present in soil. Acetone is a common laboratory-introduced compound
  - Trace p-Isopropyltoluene detected in two samples from Stephens Road Nature Preserve. P-Isopropyltoluene is naturally occurring in plants
  - Acetone and p-isopropyltoluene detections below DEQ PSRGs
- No semi-volatile organic compound impacts detected in soil samples
- No heavy metal impacts detect in soil samples – only background levels typical in NC



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# Conclusions and Recommendation

- Soil assessment for the Town of Huntersville at four locations
  - Hopewell High School
  - Stephens Road Nature Preserve
  - North Mecklenburg Park
  - Huntersville Fire Station No. 3
- No obvious soil contamination based on field screening
- Laboratory results do not indicate contamination

Based on the results of soil assessment activities, H&H does not recommend additional soil assessment activities at this time