

Field-Based Decision Approach Former Callaway Drum Recycling



Preliminary Assessment/Site Inspection for a CERCLA Hazard Ranking System (HRS) Evaluation

- Determine operational history of facility
- Identify Contaminants of Concern
 - chlorinated and petroleum compounds
- Locate source areas
 - Drum cleaning and processing
- Identify potential receptors
 - Drinking water wells
- Evaluate potential migration pathways
- Determine HRS Score



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Primary Assessment Goal

- Locate source areas – find highest concentrations of COCs

Limited budget = limited sampling quantity

Scope of Work

- Direct-Push Soil and Groundwater Profiling
- Field-Based analysis of 140 samples using Color-Tec and FID/PID to locate hot spots
- Laboratory analysis of 12 samples (based on field data)

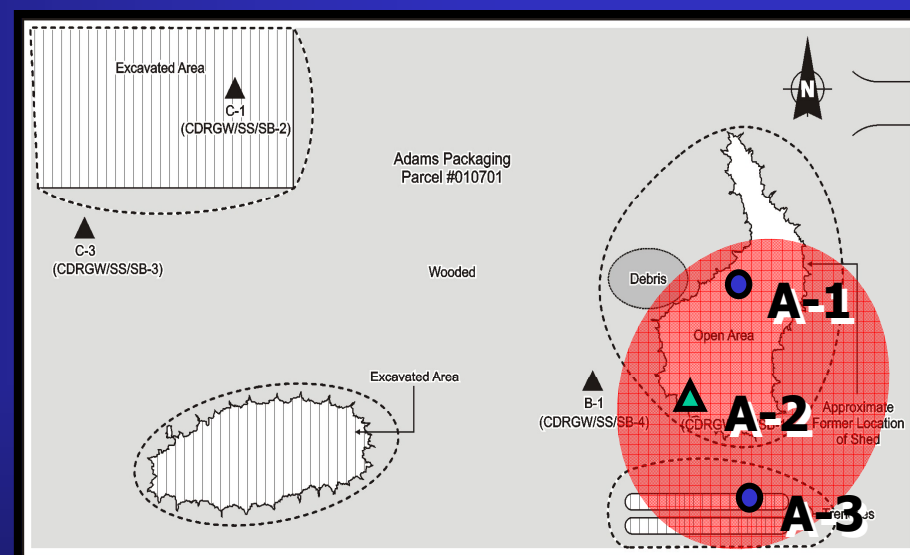


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Focus Area A

- 21 samples collected for field-based analysis
- 3 samples selected for lab-analysis based on field results
- A1 and A3 = Zero or low-level results on Color-Tec and TVA
- A2 = Positive response on CT and TVA
- Laboratory data confirmed field results



Color-Tec Units	TVA		Laboratory
	PID	FID	
110	432 ppm	4,000 ppm	PCE 7,300 µg/L

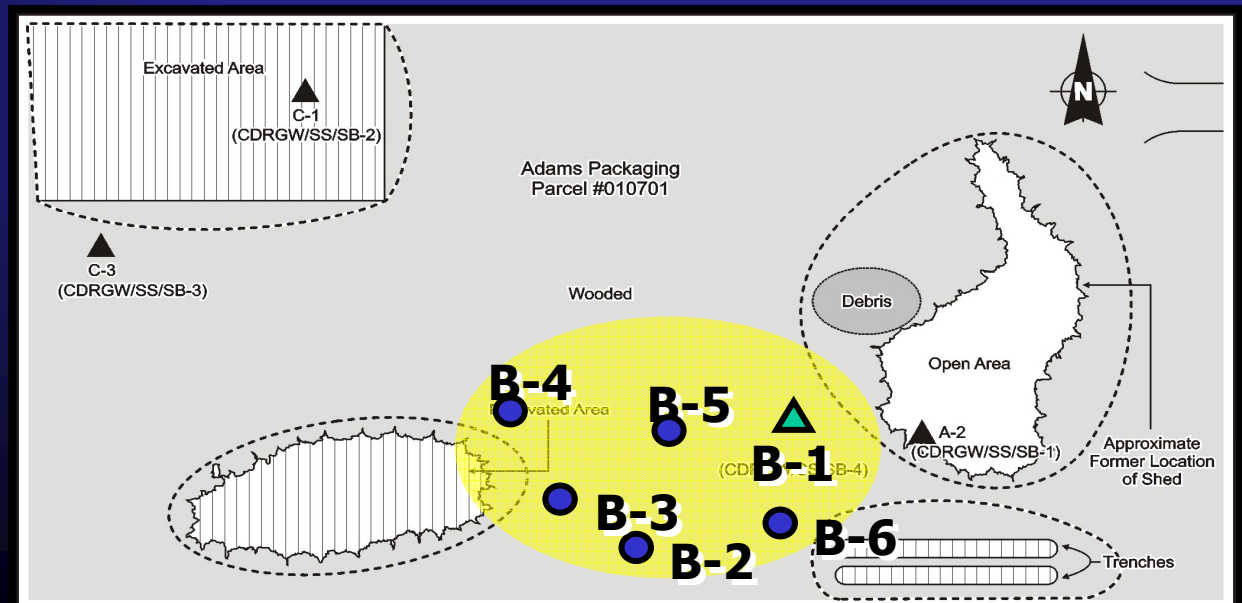


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Focus Area B

- 38 samples collected for field-based analysis
- 3 samples collected for Lab-based analysis
- Low-level or zero Color-Tec/TVA responses
- Lab data confirmed the field-based results – only low levels detected

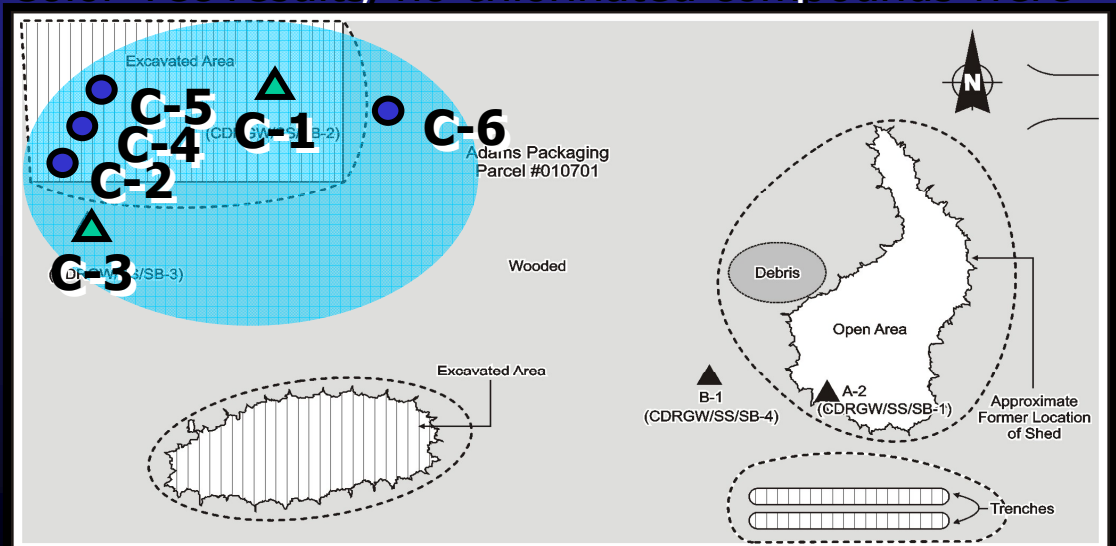


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Focus Area C

- 37 samples collected for field-based analysis
- 6 samples collected for Lab-based analysis
- TVA detected high concentrations in all borings
- Lab analysis confirmed TVA results –several petroleum compounds detected
- All Color-Tec results were negative (zero)
- Lab analysis confirmed Color-Tec results, no chlorinated compounds were detected



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Assessment Results

- Primary source areas located
- Highest concentration samples identified and sampled
- Site scored based on potential impact to drinking water aquifer

106 field samples ➡ 12 laboratory samples

Increased Sample Coverage + Definitive Analytical Data



= Reduced Sampling Uncertainty

= Increased Overall Quality