SITE STATUS AND PLANNED ACTIONS

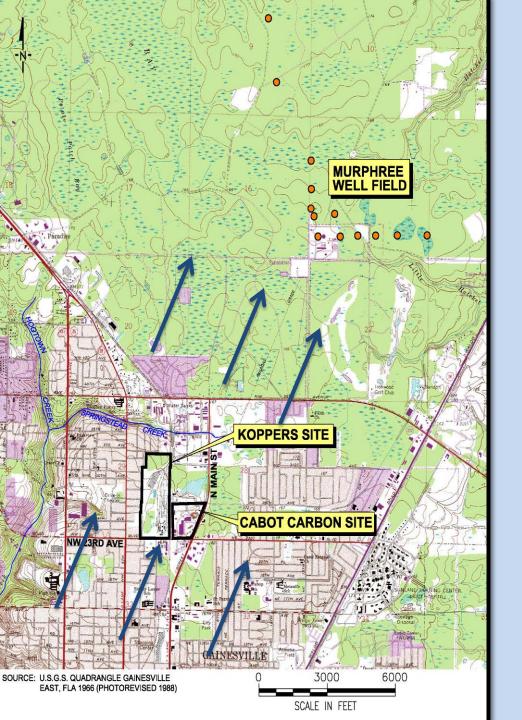
Former Koppers Facility Cabot/Koppers Superfund Site Gainesville, Florida

Presentation for the Gainesville City Commission September 17, 2015

By: Beazer East, Inc.

Introduction

- Update since 2013 presentation
- Timeline of actions
- Stephen Foster neighborhood soil restoration project
- In-situ stabilization of creosote areas
- Long-term remedy design & implementation



Site Location

Groundwater Flow Direction







Recent Timeline for Remedial Design and Remedial Action

- Feasibility Study (May 2010)
- Proposed Plan (July 2010)
- Amended ROD (February 2011)
- Consent Decree (July 2013)
- Remedial Design Work Plan (December 2013)
- Off-Property Soil Remediation (OU-5)
 - Initial soil sampling plan (September 2008)
 - Pilot property plan (November 2013)
 - Remedial action plans (February-October 2014)
 - Implementation (March-November 2014)
 - Completion report (July 2015)
- Beazer/City settlement agreement (November 2014)
- Design and remediation (2015-2019)

Consent Decree

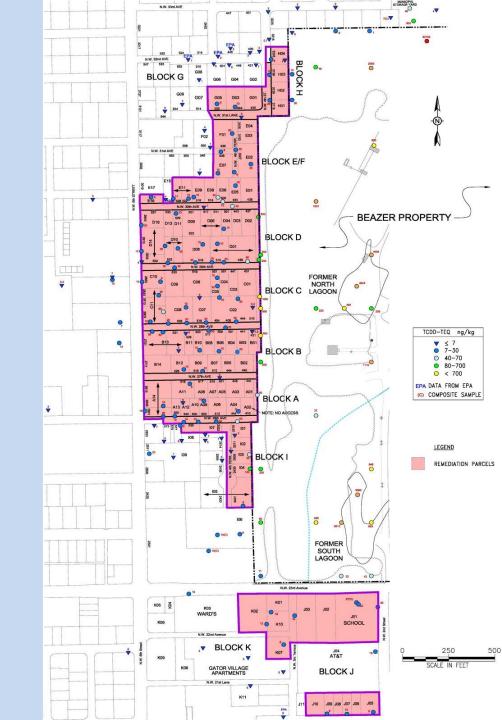
- Agreement between Beazer and US Govt. effective July 9, 2013
- Beazer will perform Remedial Design and Remedial Action with EPA oversight
- Five Operable Units ("OUs")
- Beazer responsible for addressing impacts attributable to Koppers facility (parts of OU-2, OU-3, OU-4, and OU-5)

Operable Unit 5 (Off-Property)

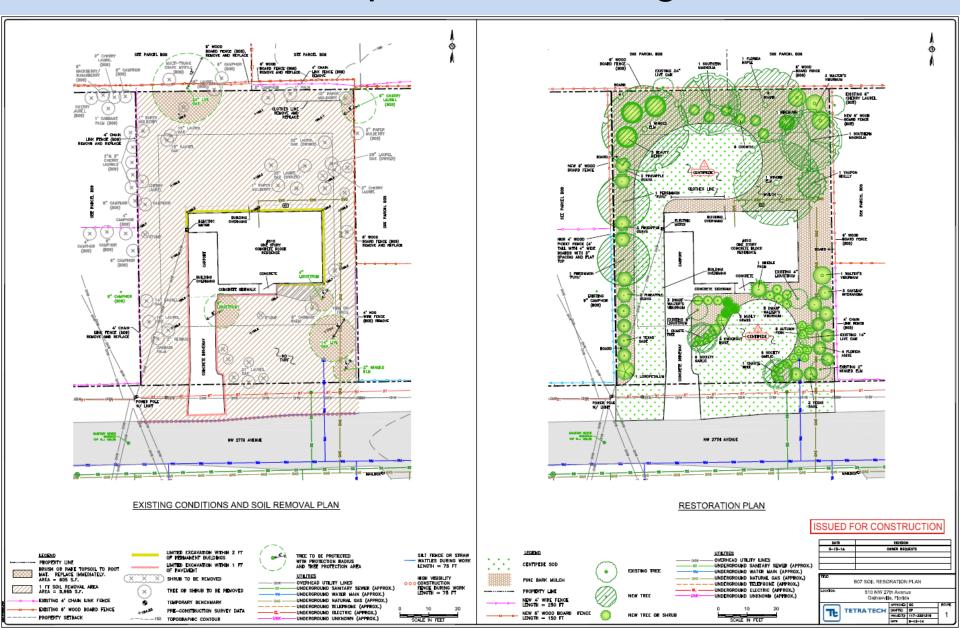
- Stephen Foster neighborhood
- Residential properties (and a few non-residential properties) that have dioxin concentrations greater than 7 parts per trillion
 - Remove top 1 foot of soil in yards
 - Replace with clean soil
 - Replace landscaping

Stephen Foster Remediation Overview

- 100 parcels 100% participation
- Tailored designs for property owners
- Replaced top 1 foot of soil
- Replaced some trees, dug around others
- New landscaping
- Irrigation
- Abandoned old septic tanks and wells
- Demolished an old trailer
- Temporary relocation assistance and cleaning stipend
- Dust and noise monitoring
- Stormwater drain on 28th Ave



Example Parcel Design





OU-5 Off-Property Soils – Results





Community Comments

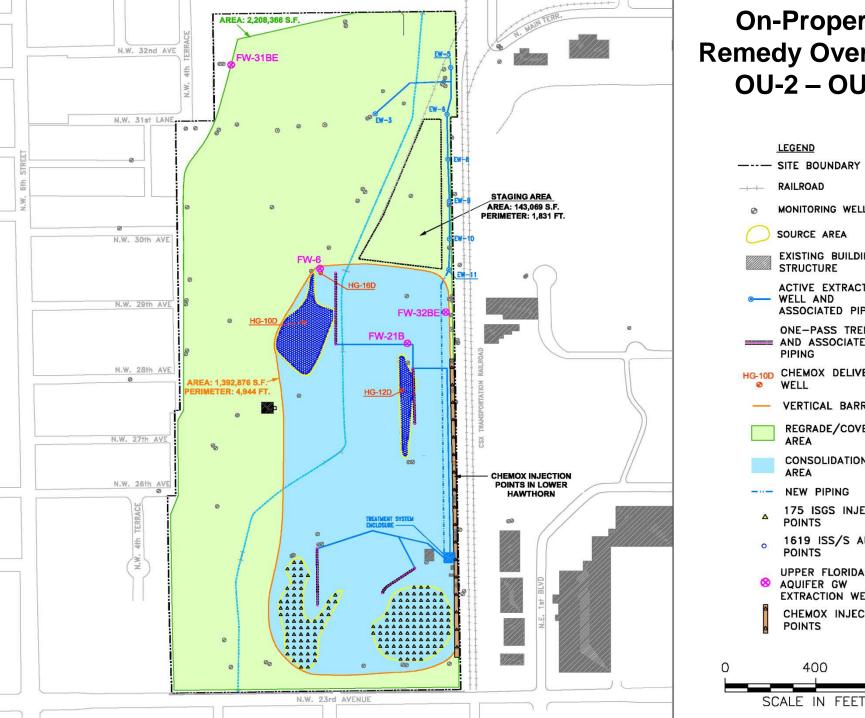
"We love it! And the neighborhood looks fantastic."

"We are very pleased with the results."

"The plants in my yard are lovely. They did a great job. Thank you."

"The cleanup really looks fantastic."

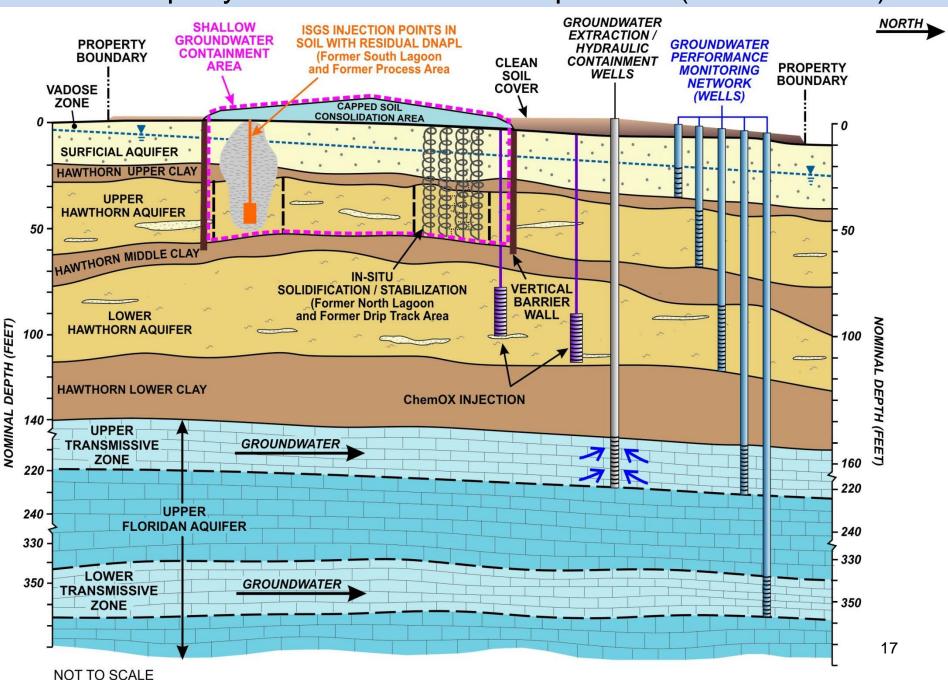
"I am meeting people that I didn't know from other streets walking in the evenings to see the changes. I'm excited about the final results. ... It's like a new beginning. I've lived there 44 years."



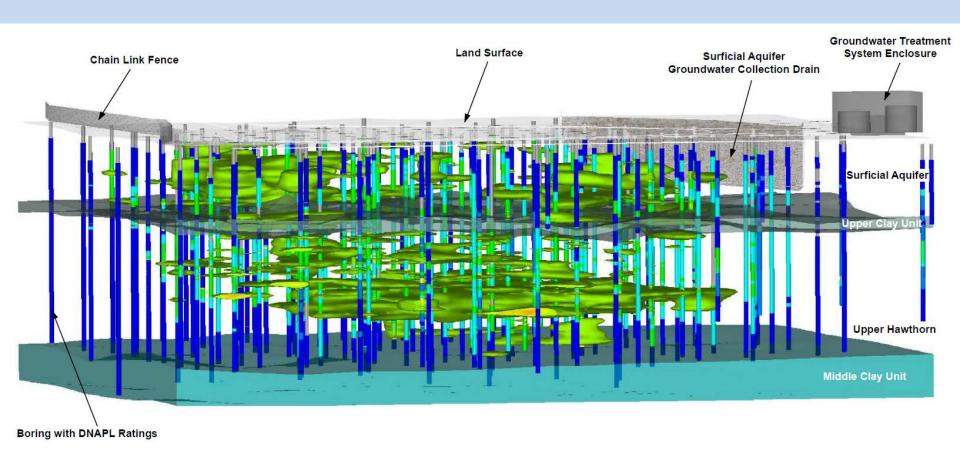
On-Property Remedy Overview OU-2 - OU-4



On-Property Remedial Action Components (OU-2 – OU-4)



In-Situ Geochemical Stabilization (ISGS): Process Area Characterization

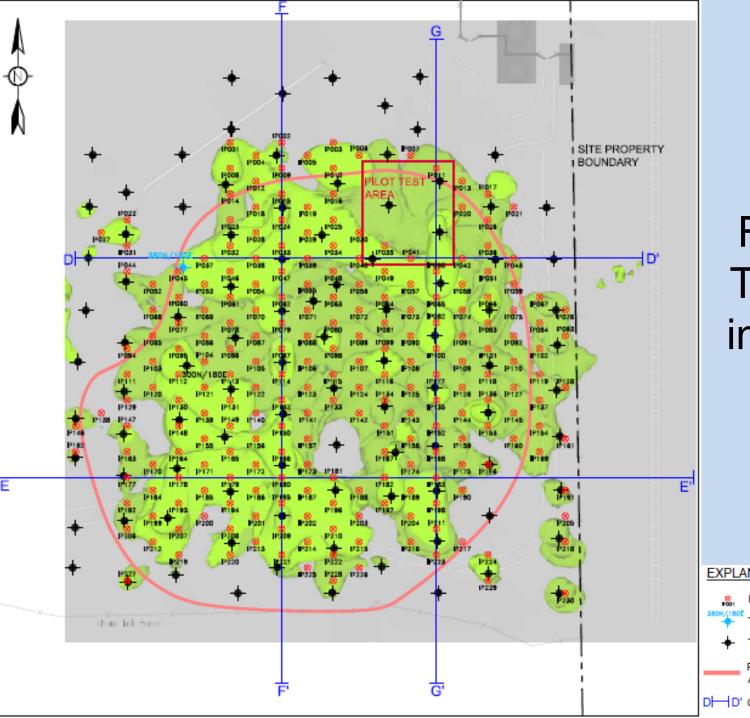


Explanation:



ISGS - Pilot Test Results





ISGS: Full-Scale **Treatment** in Process Area

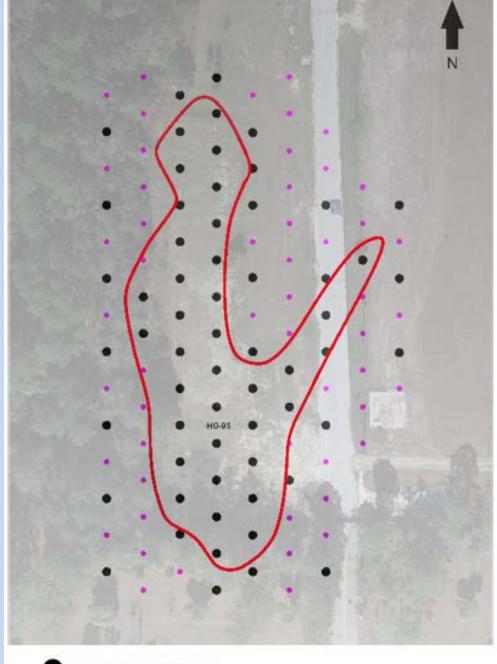
EXPLANATION

TEMPORARY INJECTION POINT (TIP)

PRE-2012 PROJECTED DNAPL SOURCE

D D' CROSS-SECTION LOCATION

ISGS: South Lagoon Characterization Plan



Proposed Primary Borehole

Proposed Borehole Contingent Upon Results of Primary Boreholes

Subsurface Barrier Wall, Stormwater Management, Off-Property Sediment Removal (Design Track 2)

- Design Tasks (2015-2016)
 - Pre-Design Work Plan approved August 28, 2015
 - Borings along cutoff wall route
 - Soil testing and slurry mix testing
 - Borings at potential stormwater facility locations
 - Soil pile sampling in Municipal Storage Yard
 - Sediment sampling to define limits of excavation
 - Preliminary, Pre-Final, and Final Design submittals
 - Remedial Action Work Plan
- Implementation (2016-2017)

Future Remedial Design and Remedial Action

- In-Situ Solidification/Stabilization (Design Track 4: 2016-2019)
 - Soil borings in North Lagoon and Drip Track areas
 - Soil testing and treatability testing
 - Pilot test
 - Preliminary, Pre-Final, and Final Design
 - Remedial Action Work Plan
 - Implementation
- Other remediation components (Design Track 5: 2017-2019)
 - Low-infiltration cap for soil consolidation area
 - Excavation and fill for site grading
 - Soil covers
 - ISGS or chemical oxidation at Hawthorn Group wells
 - Surficial aquifer hydraulic containment
 - Upper Floridan Aquifer hydraulic containment