

# **Public Meeting**

#### Former Timex Facility Little Rock, Arkansas

January 19, 2016

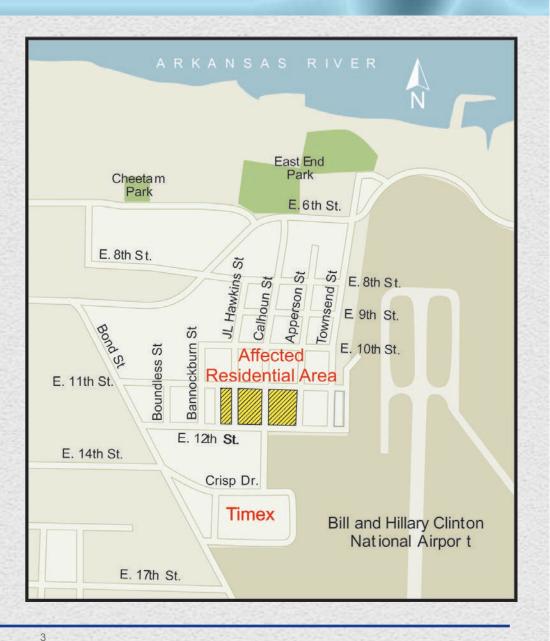
Agenda

- Brief Recap
- Soil Remediation Work (March-May 2015)
- Groundwater Remediation (Oct December 2015)
- What's next
- Questions and Answers



### Former Timex Property

- Operated from 1947 to 2000
- Manufactured watches, clocks, cameras
- Leased property from the Little Rock National Airport
- Environmental investigations identified TCE in soil and groundwater
- Confirmed no current risk from the Site





# Former Timex Facility

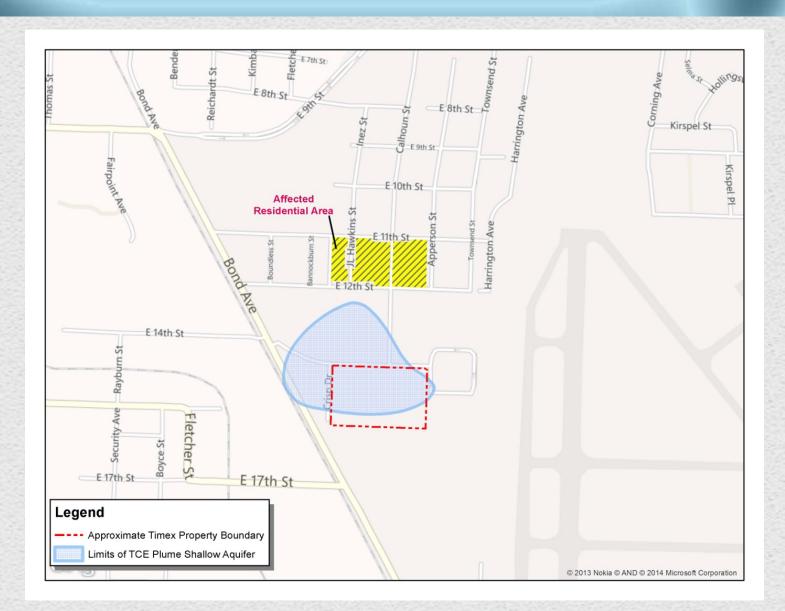
#### Then and Now:





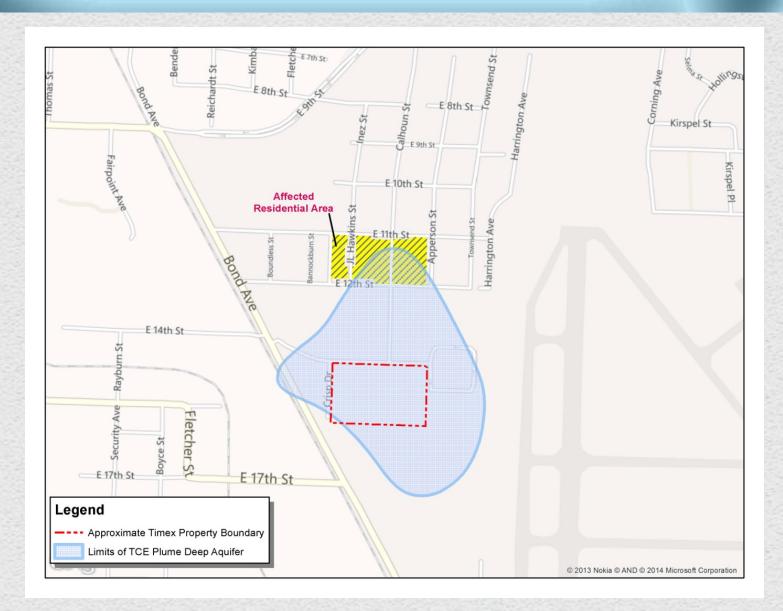


#### TCE in Shallow Groundwater



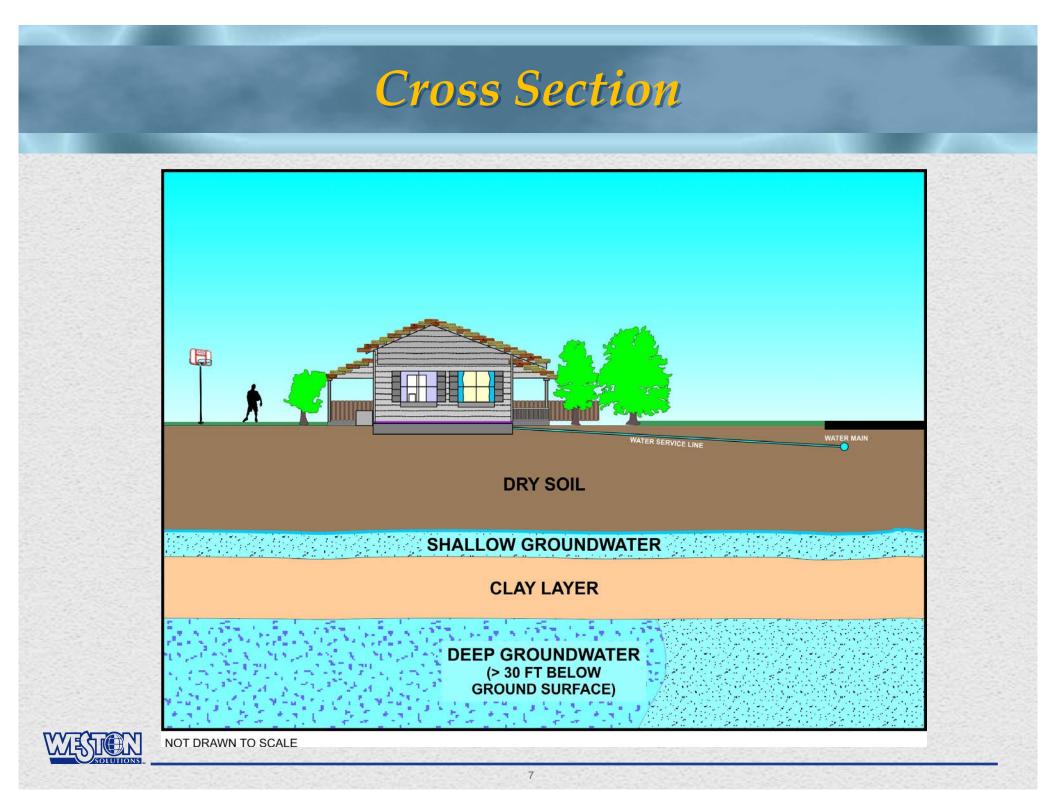


### TCE in Deep Groundwater



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### **Overview of Cleanup Plan**

- Dig up contaminated soil and take it to a secure landfill
- Restore the property to grass/pavement
- Treat the shallow groundwater with chemical oxidation to destroy the TCE
- Allow the TCE in deep groundwater to naturally degrade once the source is removed
- Protect local residents using ordinance/deed restriction to prevent new water supply wells while the groundwater is being cleaned up

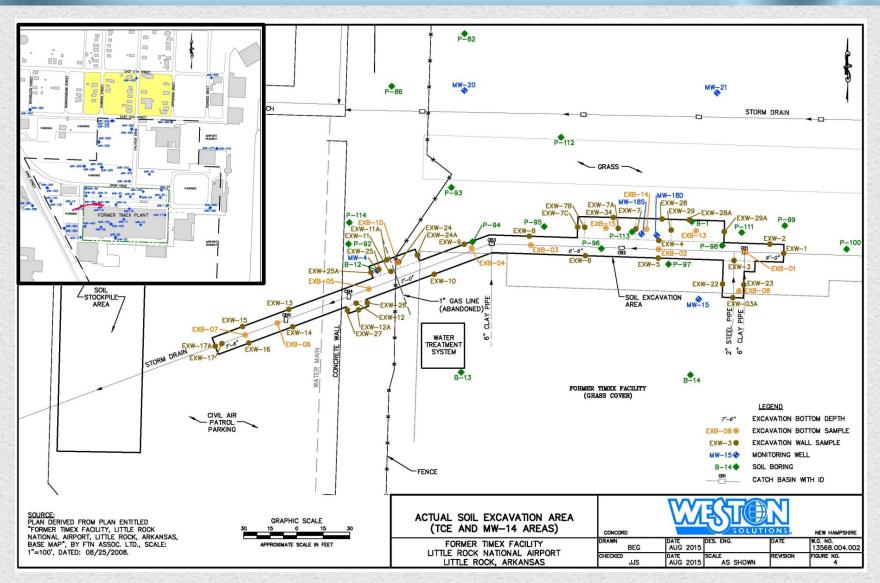


#### Soil Remediation

- ADEQ approved the Soil Remedial Action Work Plan in December 2014
- Timex completed the soil removal in March-May 2015
- Over 2,200 tons of contaminated soil were removed and taken to Saline County Landfill
- 85 samples collected to confirm that all contaminated soil was removed
- Clean soil was brought in to restore the property
- ADEQ approved the cleanup completion report in October 2015



#### Soil Remediation



WLSTON SOLUHIONS

## Soil Remediation – Site Preparation











### Soil Remediation – Soil Removal







# Soil Remediation – Soil Handling









#### Soil Remediation – Water Treatment









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#### Soil Remediation - Restoration





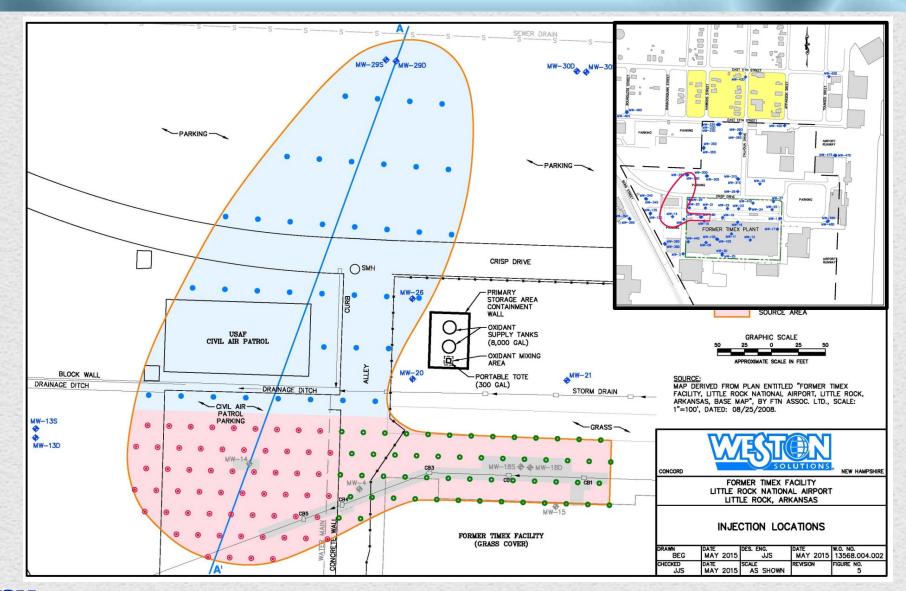






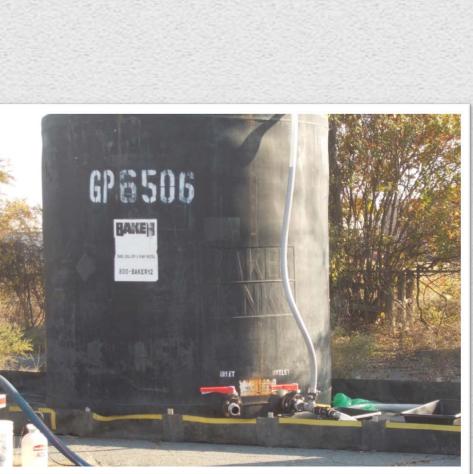
- ADEQ approved the Groundwater Remedial Action Work Plan on July 28, 2015
- Timex performed the groundwater treatment in October-December 2015
- Over 19,000 gallons of sodium permanganate solution injected into the shallow groundwater using 150 injection points
- Permanganate breaks down the TCE into harmless compounds (water, carbon dioxide, chloride, etc.)
- Monitoring of permanganate levels began on December 14 and will continue for about a year





SOLUTIONS



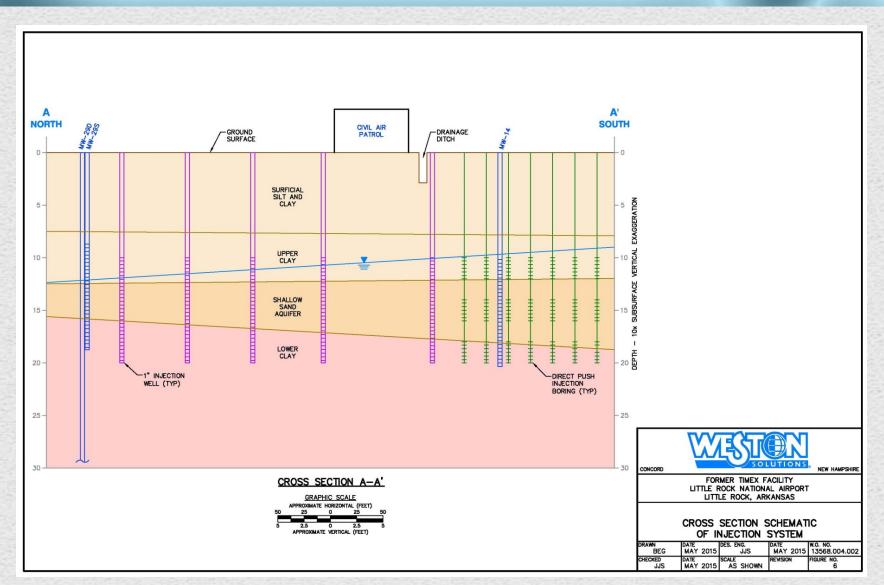












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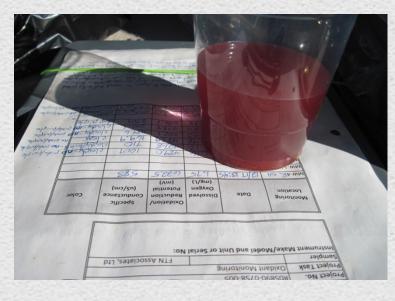




# **Post-Injection Monitoring**











#### What's Next?

- Monitor groundwater for permanganate levels
- Once permanganate has fully-reacted, test groundwater
- Determine where we need more permanganate injections
- Perform additional injections as-needed to complete the cleanup



# Questions

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# Answers

