



# **Aesthetic Impact Mitigation at a Sugar Spill Site in a Residential Setting in Louisiana**

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# Aesthetic Impacts to the Environment

Railroads transport a variety of products from perishable goods to hazardous materials

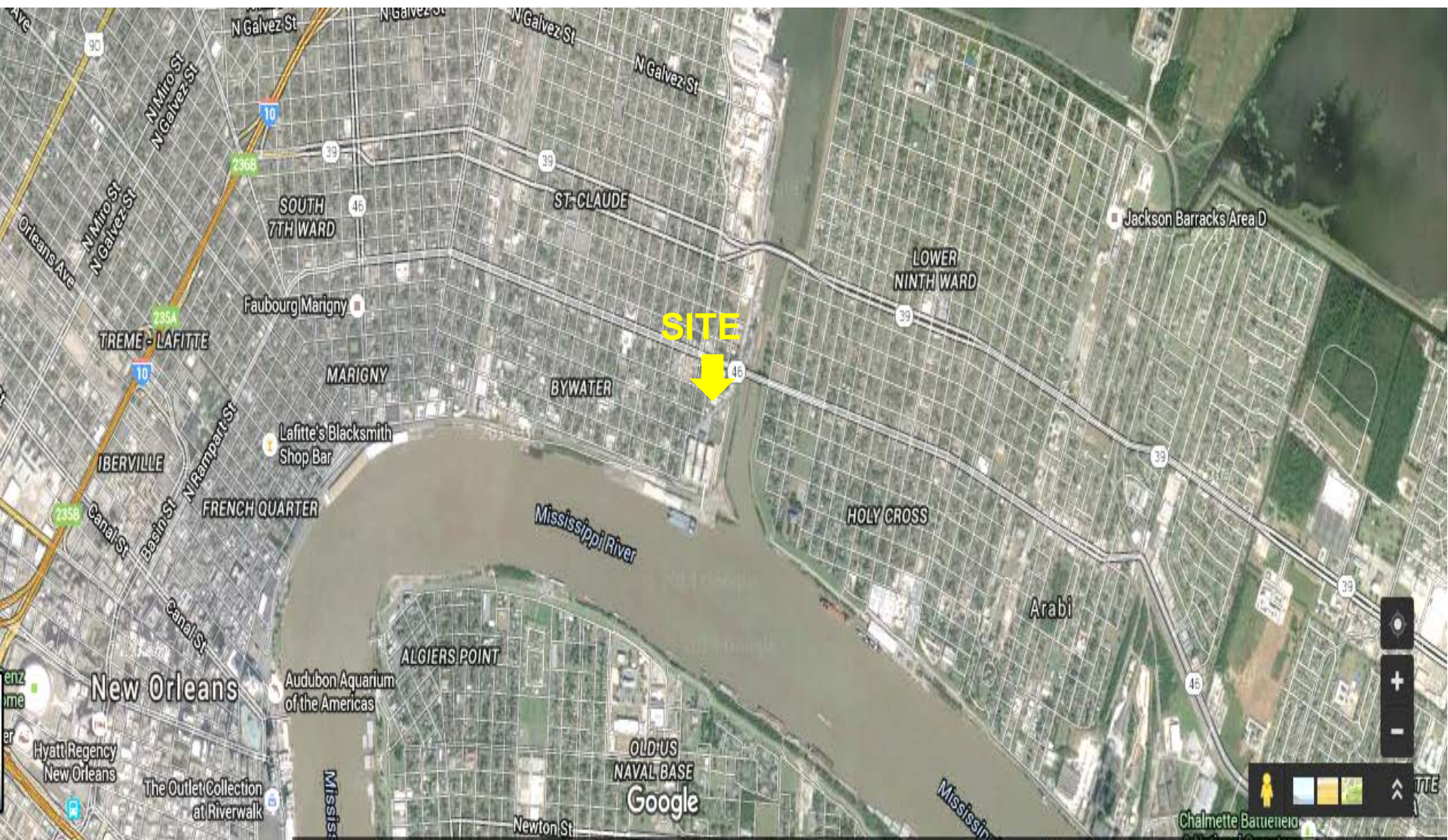
Degradation of perishables:

- Odor
  - Ambient weather
  - Wind direction
  - Atmospheric conditions
  - Amount of material
  - Sub-surface spill conditions
- Visually Unpleasing





# New Orleans, Louisiana





# Spill Area





# “Spilled Goo”

Remedy could not:

- Disturb or compromise the integrity of the tracks
- Increase the odor
- Produce runoff that may drain to drainage system





# Bench Scale and Pilot Study

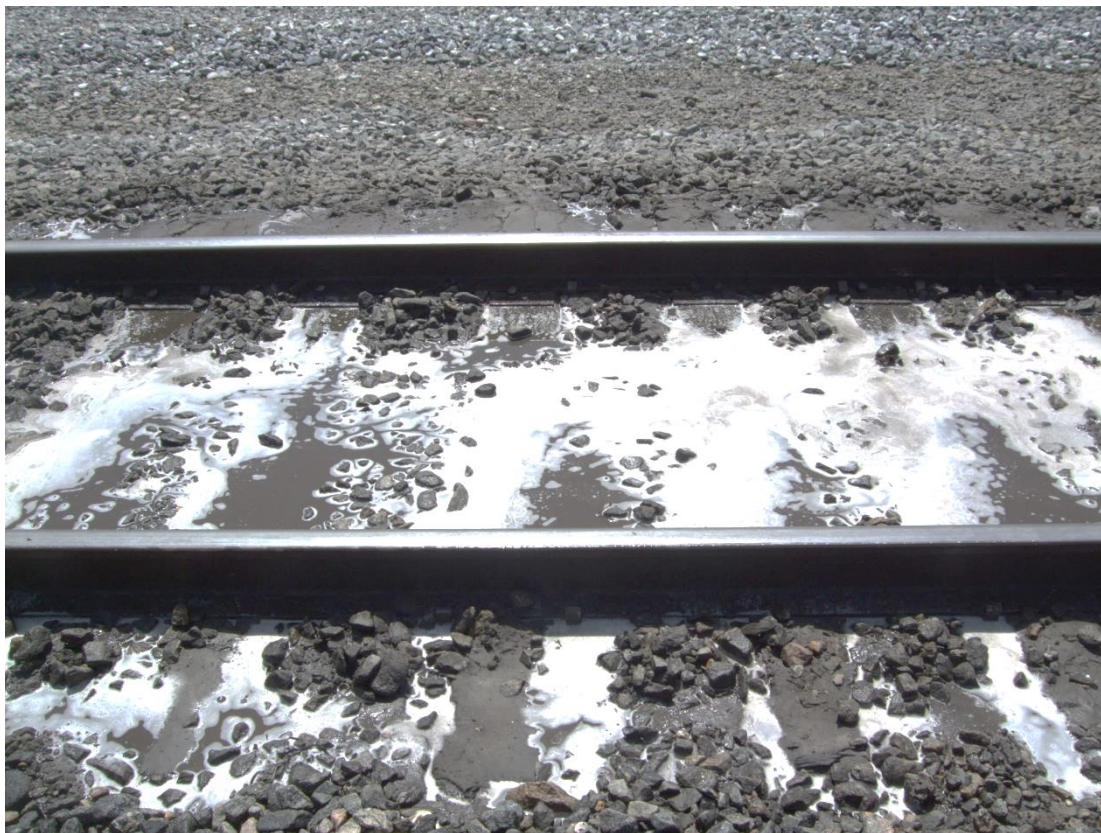
## Bench Scale Testing

- Hot Water Flush
  - 25° F
  - 75° F
  - 100° F
  - Steam
- Chosen temperature: 75° F



## Field Pilot Study

- Hot Water Flush
- SuperAll (Surfactant)



# Full Scale Implementation

- One mobilization
- No further odor complaints have been reported to LDEQ
- LDEQ has closed the issue





# Conclusions

- Low tech approach often adequate
- Chemicals or cleaners unnecessary
- Avoid dig-and-haul
- Non-quantitative regulatory
- Track integrity consideration with remediation alternatives



SPECIALITY  
CHEMICALS





# Recommendations



- Preventative Measures
  - Sweepers
  - Inspections
- Immediate Cleanup

