Kerr-McGee Chemical Corp. Navassa, North Carolina Superfund Site

DRAFT

Public Meeting April 10, 2018

U.S. Environmental Protection Agency
N. C. Department of Environmental Quality
Greenfield Environmental Multistate Trust LLC,
Trustee of the Multistate Environmental Response Trust







DRAFT Public Meeting Agenda

- ✓ Introductions
- ✓ Update on EPA Information Repository
- ✓ Overview of Site and Superfund Process
- ✓ NCEERC Update
- ✓ N.C. DEQ Update on Navassa Trustees Council
- ✓ Remediation Investigations (RI) Highlights
- ✓ Kerr-McGee Navassa Redevelopment Planning Initiative (RPI) Update
- ✓ Questions and Discussion







Introductions

Tonya Spencer, EPA







Introductions

- ✓ Navassa Superfund Site Cleanup Team
 - ✓ U.S. Environmental Protection Agency (EPA)
 - ✓ N.C. Department of Environmental Quality (N.C. DEQ)
 - ✓ Multistate Environmental Response Trust (Multistate Trust)
- ✓ Navassa Community Environmental and Economic Redevelopment Corporation (NCEERC)
- ✓ Redevelopment Working Group (RWG)
- √ Navassa Trustees Council Natural Resource Damage (NRD) Restoration
- ✓ Other Partners
 - ✓ N.C. Department of Health and Human Services/N.C. Division of Public Health (N.C. DPH) – Health education and outreach
 - ✓ University of North Carolina Wilmington (UNCW) College / Underserved Community Partnership Program (CUPP)







Update on EPA Information Repository

Public Meetings Every Quarter

Next Meeting July 19, 2018







Navassa Community Environmental and Economic Redevelopment Corporation (NCEERC) Update

Chris Graham, NCEERC







N.C. DEQ Update Navassa Trustees Council Natural Resource Damage Update

David Mattison and Anjie Ackerman, N.C. DEQ







Overview of Superfund Process

Erik Spalvins, EPA







How we got here

- √ 2005, Kerr McGee created "Tronox", which went bankrupt in 2009
- ✓ EPA took over investigation in 2010
- ✓ Tronox Bankruptcy Settlement Agreement finalized in February 2011
 - ✓ Multistate Trust funds can only be used for cleanup
 - ✓ Navassa Trustees Council Natural Resource Restoration by NOAA, N.C. DEQ, FWS
- ✓ Multistate Trust created in 2011







Superfund Process

Remedial Investigation (RI)



Feasibility Study (FS)



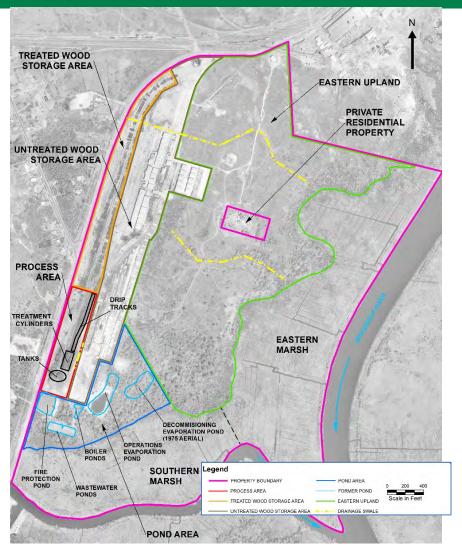
Proposed Plan (Record of Decision)



Remedial Design (RD)



Remedial Action (RA)









DRAPrioritizing Areas for Cleanup

Remedial Investigation (RI)



Feasibility Study (FS)



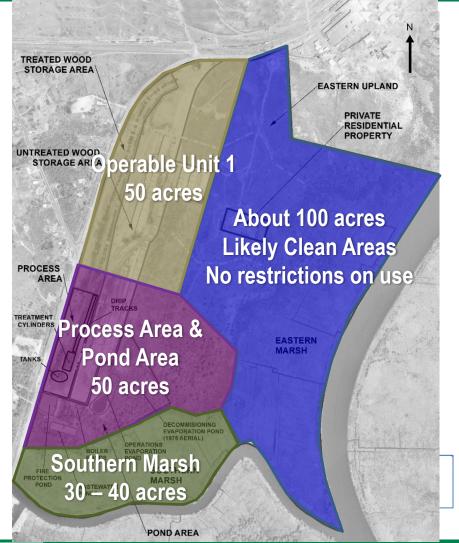
Proposed Plan (Record of Decision)



Remedial Design (RD)



Remedial Action (RA)









DR Community Involvement Mission Statement

✓ EPA, N.C. DEQ, Multistate Trust commitment:

- ✓ Remediate the Site to enable reuse(s) supported by and beneficial to the community
- ✓ Inform the public of environmental conditions at the Site and remediation progress
- ✓ Encourage public involvement in the remediation process.
- ✓ Conduct the remediation so it can have a broad, positive community impact

✓ The role of the community – Vision and Voice

- ✓ Provide input into the process
- ✓ Provide a vision of what types of future use would be preferred







Highlights of Remedial Investigations

Richard Elliott, Multistate Trust









Remedial Investigations (RI)

Purpose of Remedial Investigations (RI): Identify areas of contamination on and around the Site that need to be remediated to protect people and the environment

- ✓ Investigate all potentially contaminated media on- and off-Site soil, sediment, groundwater and surface water
- ✓ Determine the limits and concentrations of Site contaminants
- ✓ Use RI results to evaluate potential risks to people and the environment and identify remediation actions (Feasibility Study or FS)







RI Highlights

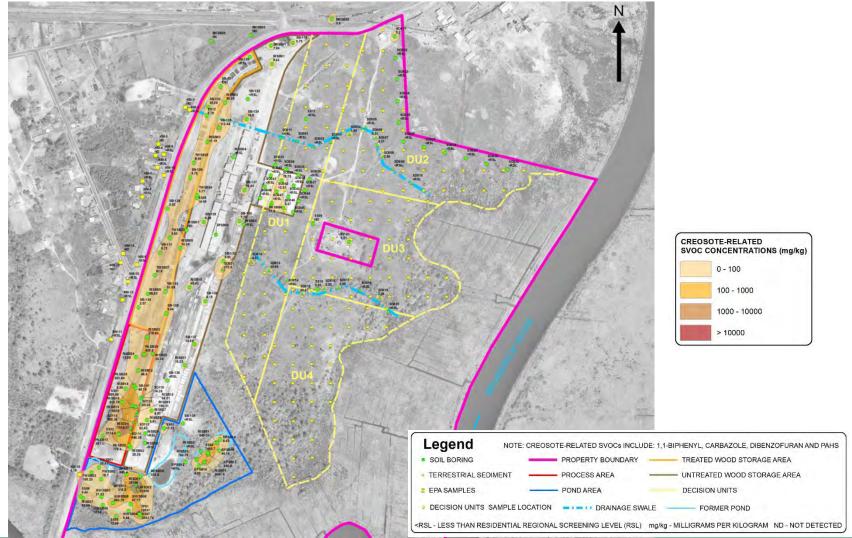
- ✓ Constituents of Concern (COCs)
 - ✓ Polycyclic Aromatic Hydrocarbons (PAHs) (creosote-related SVOC contaminants)
 - ✓ Inorganics (Arsenic)
- ✓ Extent of Contamination
 - ✓ Surface Soils
 - ✓ Subsurface Soils
 - ✓ Terrestrial Sediment
 - ✓ Marsh Sediment
 - ✓ Groundwater
- ✓ Human Health Risk Assessment
- ✓ Baseline Ecological Risk Assessment







Distribution of Creosote-Related SVOCs in Surface Soil and Terrestrial Sediments

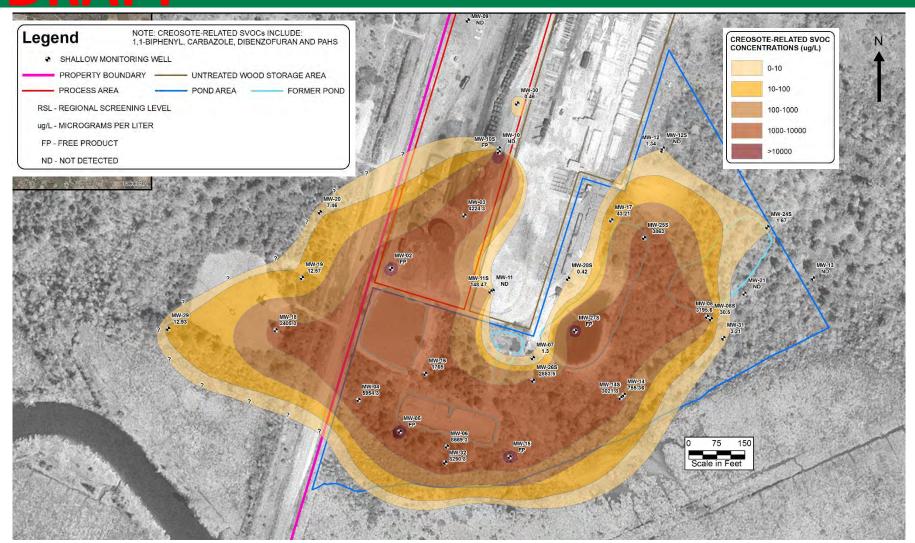








Distribution of Creosote-Related SVOCs in Groundwater









Human Health Risk Assessment

- ✓ Evaluates risk to human health currently and in the future
- ✓ HHRA evaluated risk for each area of the Site for each medium (soil, sediment, groundwater)
- ✓ Receptors evaluated included future residents (child and adult), teenage trespasser, construction worker, and industrial worker
- ✓ Constituents of concern (COCs) identified for further evaluation include inorganics (Arsenic), Volatile Organic Compounds (VOCs) and creosote-related SVOCs
- √ No exposure currently occurring







Baseline Ecological Risk Assessment

- ✓ BERA focused on potential risks related to Polycyclic Aromatic
 Hydrocarbons (PAHs) in the marsh
- ✓ BERA evaluated potential risks for sediment dwelling organisms, fish, mammals, and birds
- ✓ Multiple lines of evidence were used, including 2017 investigation results, to understand if PAHs are "biologically available"
- ✓ Results demonstrate that most of the marsh has low levels of PAHs (if any) that do not pose a risk to the ecological receptors
- ✓ Small area in marsh, approximately 1 to 3 acres in size, may pose a risk to ecological receptors and may need to be addressed







DRAFT Key Activities for 2018

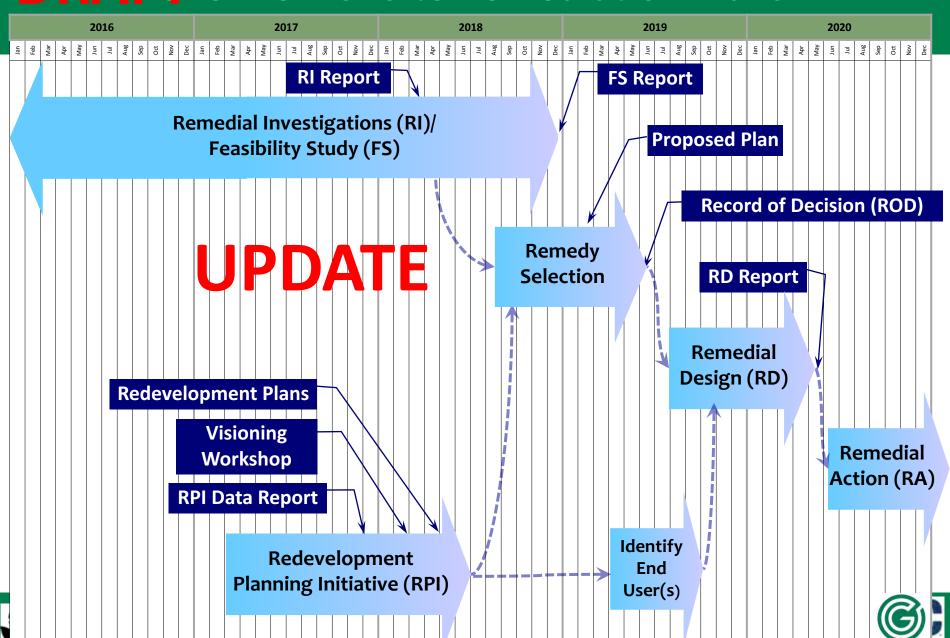
- Complete RI Report
- Complete HHRA
- Complete BERA
- Conduct Trenching Investigation in Northern Area
- Take Additional Samples in Marsh
- Complete Feasibility Study and Proposed Plan for Northern Area
- Complete Redevelopment Planning Initiative
- Conduct Plume Analytics for Groundwater







DRAFTverview of Site Remediation Plans

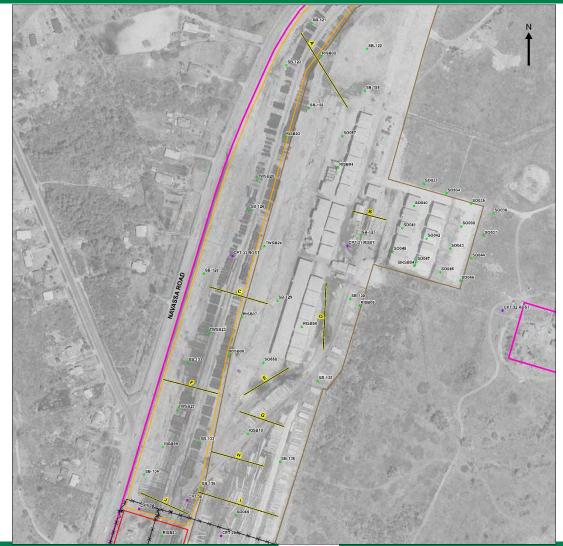








DRAFProposed Trench Locations





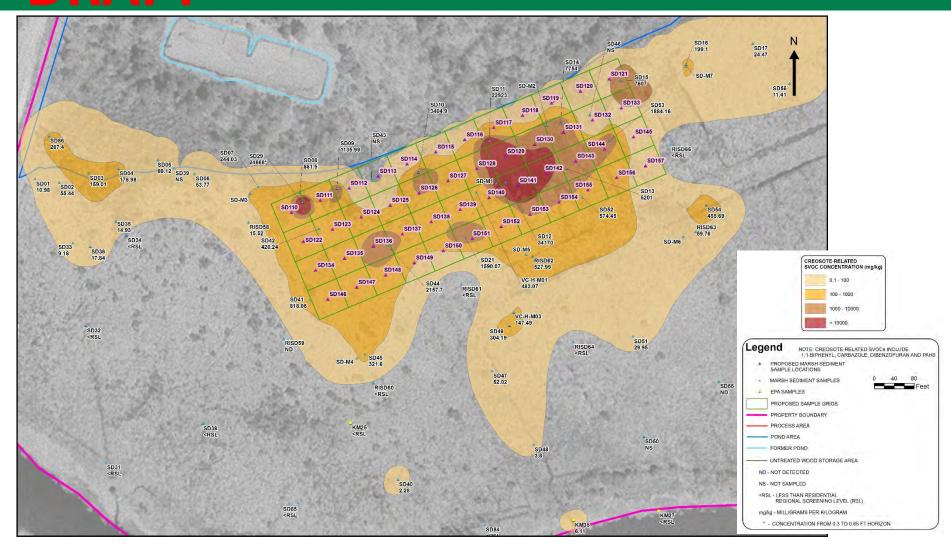








DRAFFPosed Sediment Sample Locations









Kerr-McGee Navassa Redevelopment Planning Initiative (RPI)

Richard Elliott, Multistate Trust







Kerr-McGee Navassa Superfund Site DRA Redevelopment Planning Initiative (RPI)

- ✓ Opportunities for Community Input/Engagement
 - ✓ Redevelopment Working Group (RWG)
 - ✓ Community Survey
 - ✓ Community Stakeholder Meetings
 - ✓ Community Visioning Workshop, February 23-24, 2018
 - ✓ Open House
- ✓ RPI Process and Deliverables
- ✓ RPI Schedule







Kerr-McGee Redevelopment Planning Initiative (RPI) RAFT Redevelopment Working Group

Redevelopment Working Group (RWG) Participants

- ✓ Town of Navassa
 - ✓ Town Council (Councilors Bethel, Brown, Burns, Merrick, and Burgess)
 - ✓ Mayor Willis
- ✓ Residents of Navassa
 - ✓ Leneir Grady, Earnest Mooring, Jr. and Melvin Walker
- ✓ Navassa Community Economic & Environmental Redevelopment Corporation (NCEERC)
 - ✓ LaTanya Beatty-Nixon
 - ✓ Chris Graham
 - ✓ Conswalia Green
 - ✓ Marcell Hatten
 - ✓ Patrice Robbins
- ✓ Other Stakeholders
 - ✓ Resea Willis/President/Brunswick Housing Opportunities (BHO)
 - ✓ Veronica Carter/Board Member/North Carolina Coastal Federation (NCCF)







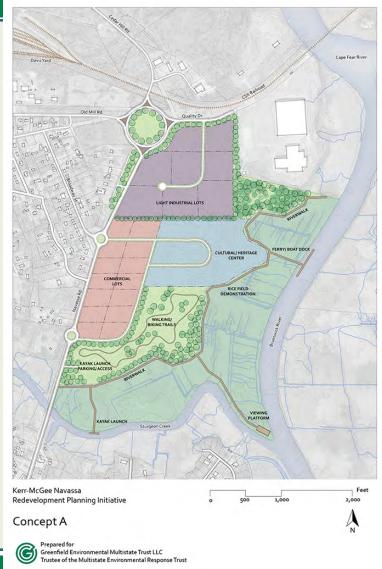
Kerr-McGee Redevelopment Planning Initiative (RPI) Community Involvement To Date and Going Forward







Concept A

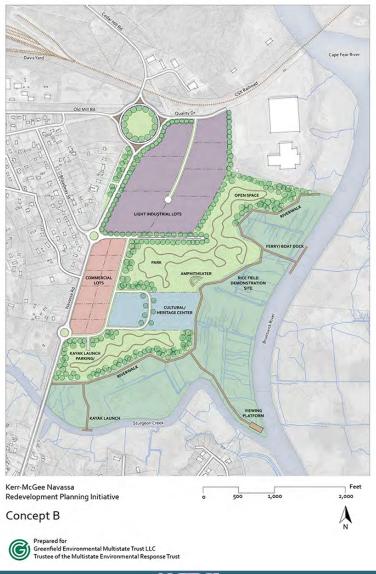








Concept B









Concept C









Concept D









Contact Information

- Erik Spalvins, EPA Remedial Project Manager
 - (404) 562-8938, <u>spalvins.erik@epa.gov</u>
- Tonya Spencer, EPA Community Involvement Coordinator
 - (404) 562-8463, <u>spencer.latonya@epa.gov</u>
- David Mattison, NCDEQ Superfund Section Project Manager
 - (919) 707-8336, <u>david.mattison@ncdenr.gov</u>
- Cindy Brooks, Multistate Trust Managing Principal
 - (617) 448-9762, cb@g-etg.com
- Richard Elliott, Multistate Trust Project Manager
 - (617) 953-1154, <u>re@g-etg.com</u>







Questions and Discussion





