

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

**Quarterly Update for Navassa Town Council
June 2, 2020**

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



Meeting Agenda

- ✓ **Introductions**
- ✓ **OU1 Proposed Plan Update**
- ✓ **Work Progress in 2020**
- ✓ **2020 Work Plans**
- ✓ **Questions and Discussion**



Introductions

Tonya Spencer-Harvey, EPA



Introductions

- ✓ **Navassa Superfund Site Cleanup Team**
 - ✓ U.S. Environmental Protection Agency (EPA)
 - ✓ N.C. Department of Environmental Quality (NCDEQ)
 - ✓ Multistate Environmental Response Trust (Multistate Trust)
- ✓ **Navassa Town Council**
- ✓ **Navassa Community Environmental and Economic - Redevelopment Corporation (NCEERC)**
- ✓ **Navassa Trustee 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)



EPA Information Repository

- ✓ Navassa Community Center
 - ✓ Leland Public Library
- ✓ EPA Region 4, Superfund Records Center, Atlanta, GA
 - ✓ Online

Public Meetings Every Quarter



OU1 Proposed Plan Update

Erik Spalvins, EPA



OU1 Proposed Plan Update

- ✓ EPA released the Proposed Plan for Operable Unit 1 (OU1) for public comment on October 9, 2019.
- ✓ The Proposed Plan identified a No Action Remedy as the Preferred Alternative for a 21.6-acre OU1 area identified for planned industrial, commercial and recreational land use.
- ✓ EPA reviewed all written and verbal comments submitted during the public comment period, including;
 - ✓ A request from the Mayor of Navassa to change the anticipated land use.
 - ✓ The Navassa Town Council voted, on February 24, 2020, to develop additional clarification of the Town's position on land uses for OU1.
 - ✓ The Town Council provided a "Letter of Position" to EPA on March 10, 2020, which clearly states that the Town Council would like to pursue redevelopment scenarios in OU1 that would include residential uses.
- ✓ Based on this input from the Town of Navassa, EPA decided to reevaluate OU1 for residential land use.



OU1 Proposed Plan Update (Continued)

- ✓ EPA and NCDEQ agreed that additional sampling is needed to conduct a residential land-use evaluation.
- ✓ EPA, NCDEQ, and the Multistate Trust developed a sampling approach in March 2020.
- ✓ The sampling approach meets both EPA's Superfund requirements for a residential Human Health Risk Assessment and NCDEQ's statutory requirements for unrestricted use (no land-use restrictions).
 - ✓ The main feature of the expanded sampling approach is dividing OU1 and OU2 into quarter-acre sampling units to represent potential residential exposure to soil.
 - ✓ The Multistate Trust is currently developing a detailed sampling plan for EPA and NCDEQ review.
- ✓ The sampling approach for OU1 is part of EPA's sitewide strategy to speed up redevelopment.
- ✓ After the Record of Decision for OU1 is signed, EPA will pursue deletion of OU1 from the National Priorities List, which will create additional incentives and opportunities for development.



EPA 2020 Site Strategy

Eastern Upland

Not part of Superfund Site. No restrictions.

OU1: Areas 1A, 1B, and 2

Identify areas acceptable for Unrestricted Use and Unlimited Exposure -> no action and no institutional controls under either Federal or State regulations.

OU2: Areas 1C and 1D

Identify areas requiring action to address unacceptable residential or ecological risks. Begin Feasibility Study.

OU3: Southern Marsh Sediments

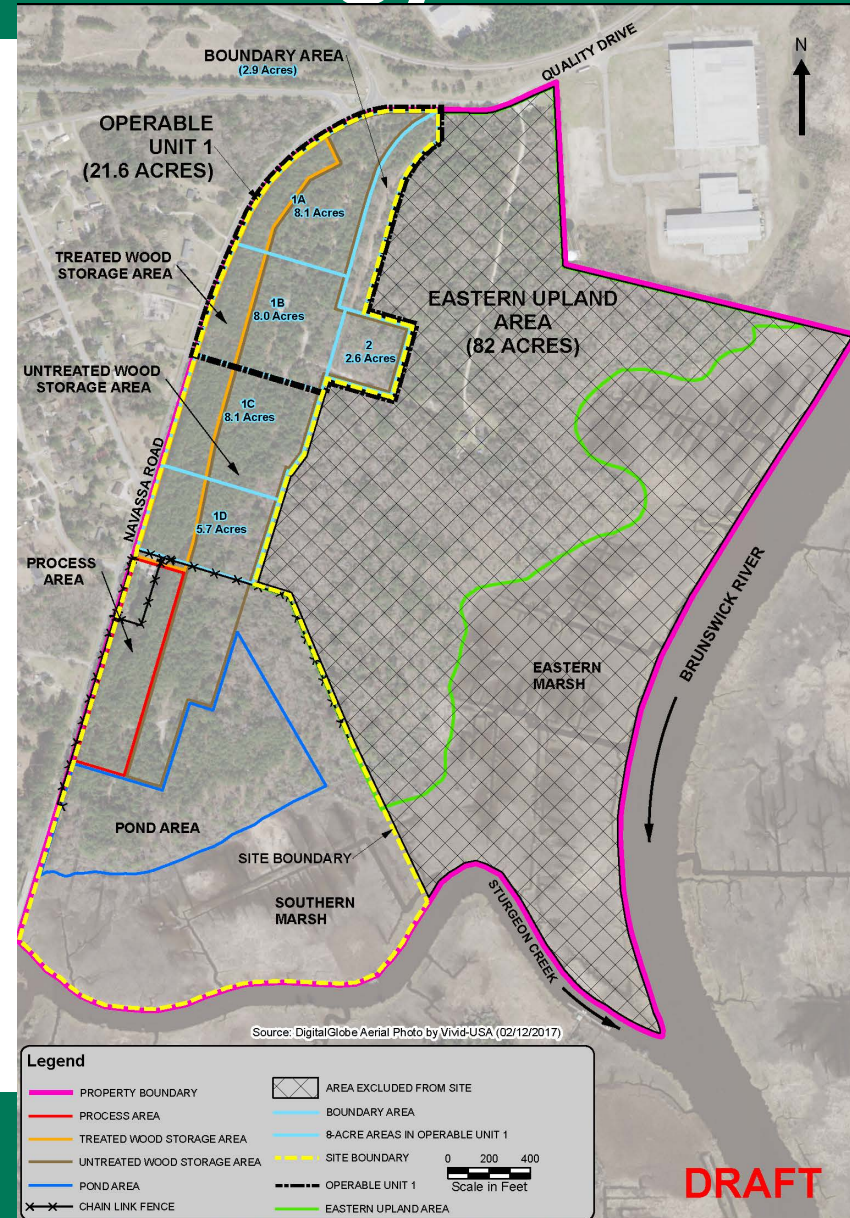
Conduct ecological sampling of marsh sediments.

OU4: Pond Area and Process Area

Delineate creosote contamination.

OU5: Groundwater DNAPL and Dissolved Plume

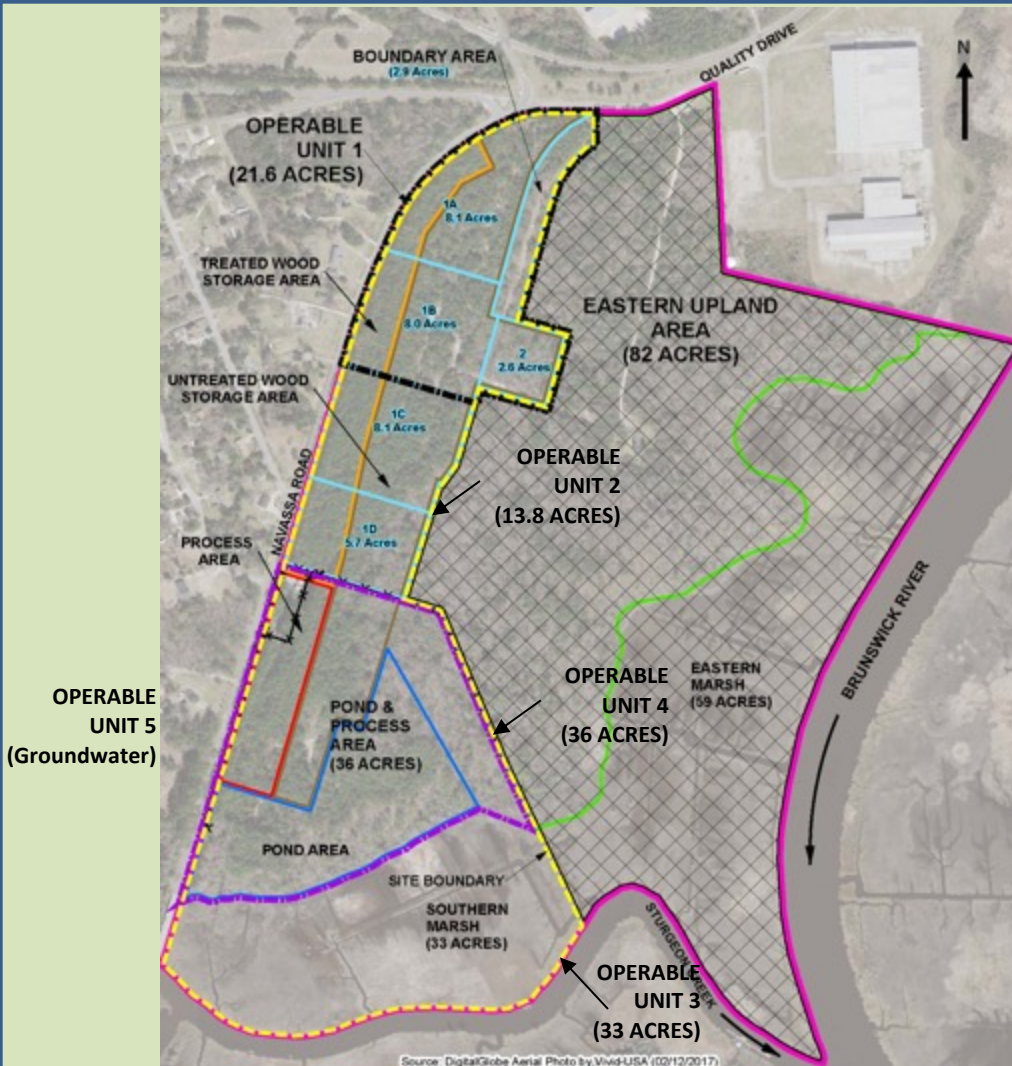
Conduct groundwater sampling. Investigate groundwater – surface water interactions. Measure contaminants moving from groundwater into sediments.



Progress in 2020

Progress on Site activities since the January 2020 quarterly community meeting

- **OU1** (the portion of Treated and Untreated Wood Storage Areas requiring no remedial action to meet residential use criteria): Based on public comments received in response to the Operable Unit 1 (OU1) Proposed Plan, EPA decided to reevaluate OU1 for residential land use. EPA, NCDEQ, and the Multistate Trust developed a sampling approach for residential risk assessment.
- **OU2** (the portion of Treated and Untreated Wood Storage Areas requiring remedial action to meet residential use criteria): The Multistate Trust developed an invertebrate sampling approach to evaluate ecological risk in OU2.
- **OU3** (Southern Marsh): The Multistate Trust developed a sediment and surface water sampling approach and has conducted a drone-based infrared survey.
- **Property Management:** The Multistate Trust continued to provide oversight of installation of Brunswick County Wastewater Treatment Plant force main.

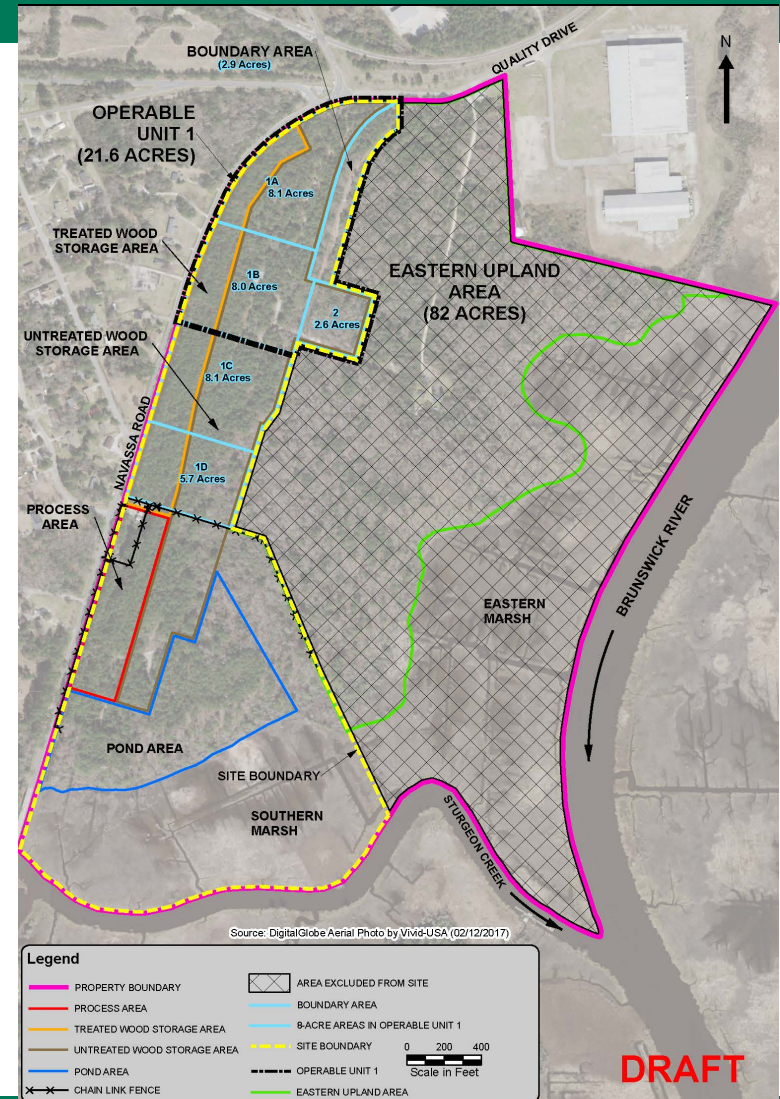


Legend



Key Activities 2020 Plan

- Oversight of Brunswick County WWTP Force Main Installation on Site
 - Soil Management Plan
 - Worker HAZWOPER Awareness/Training
 - On-Site Oversight
- Work to Take Place in Early 2020
- Directional Drill Southern Section of the Line
- Trench Northern Section of the Line



Key Activities 2020 Plan

- ✓ **OU1 / OU2 Treated and Untreated Wood Storage Areas**
 - Develop soil sampling work plan for residential land use evaluation and perform field work
 - Conduct risk analysis to support potential future residential use and update the Human Health Risk Assessment

- ✓ **OU2 (the portion of Treated and Untreated Wood Storage Areas requiring remedial action to meet residential use criteria)**
 - Develop invertebrate sampling work plan (to evaluate ecological risk) and perform field work
 - Conduct ecological risk analysis and update the Baseline Ecological Risk Assessment (BERA)

- ✓ **OU3 Southern Marsh**
 - Conduct drone-based surface water thermal imaging survey and multi-spectral vegetation imaging survey of marsh areas (completed)
 - Develop sediment and surface water sampling work plan and conduct field work
 - Conduct ecological risk analysis and update the BERA
 - Start remedial alternatives analysis



Key Activities 2020 Plan (Continued)

✓ **OU4 Pond and Process Area**

- Conduct subsurface soil sampling to improve understanding of subsurface geology and aquifer geotechnical parameters

✓ **OU5 Groundwater**

- Conduct two groundwater monitoring well sampling events
- Install new monitoring wells in the Southern Marsh
- Remove six monitoring wells with a history of being below the contaminant detection limit

✓ **Property Management and Disposition**

- Continue to provide oversight of installation of Brunswick County Wastewater Treatment Plant force main
- Continue working with the N.C. Coastal Land Trust on potential property conveyance and long-term stewardship (primarily intended for use by proposed cultural center and nature park)
- Prepare to identify purchaser to develop a portion of the property to create jobs and expand tax base



Questions and Discussion



Contact Information

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