Morgan Francis Neighborhood 576/600 East Broadway

Raymark
Industries, Inc.
Superfund Site
Stratford, CT

Jim DiLorenzo, EPA
Mike Looney, USACE
Rachel McPhee, USACE
Alivia Coleman, Stratford Health Dept

November 9, 2022







US Army Corps of Engineers_®

To download presentation slides visit:

Stratfordct.gov/Raymark

To sign up for Raymark cleanup email updates email:

acoleman@townofstratford.com

Virtual Meeting Guidelines

- Everyone will be muted throughout the presentations please stay muted to eliminate background noise.
- Hold questions until the end of each section.
 - Use the chat box.
 - Mute yourself after speaking.
- Ask questions related to the presentation topic.
- Please be respectful of time, so everyone has a chance to speak.
- Talk one at a time.
- This meeting will be recorded.

AGENDA

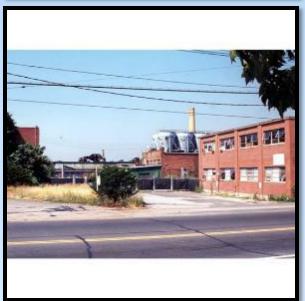
- I. CALL TO ORDER
- II. WELCOME, INTRODUCTIONS, VIRTUAL MEETING GUIDELINES
- III. BRIEF HISTORY
- IV. NATURE AND EXTENT OF CONTAMINATION LOCATED AT MORGAN FRANCIS
- V. SUMMARY OF THE CLEANUP DECISION (July 2011 Record of Decision or ROD)
- VI. 2014 REMEDIAL DESIGN & CURRENT DESIGN UPDATE
- VII.SCHEDULE

VIII.Q&A

BRIEF HISTORY OF RAYMARK

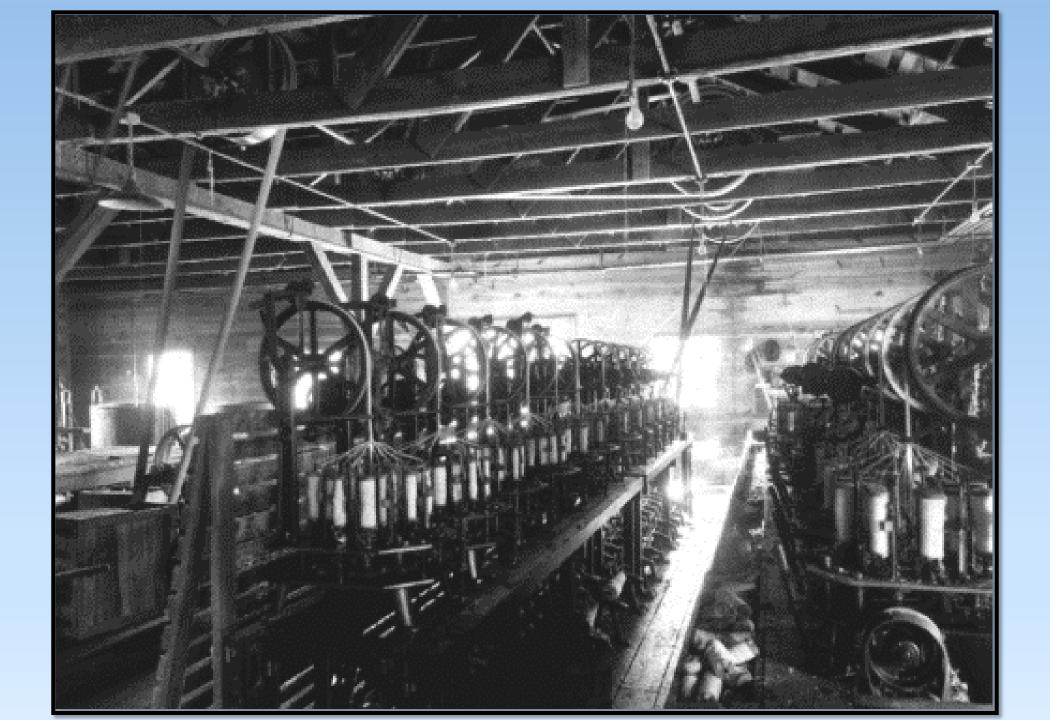
Raybestos - Manhattan Company





- Former 33-acre manufacturing facility
- Operated for 70 years (1919 to 1989)
- Made brake pads and clutch plates
- Liquid wastes discharged to unlined lagoons
- Lagoon sludge/spent solids used as fill material
- Filled low spots on their own property
- Gave away as free fill around town (most to fill wetlands)
- Current location of Stratford Crossing shopping plaza

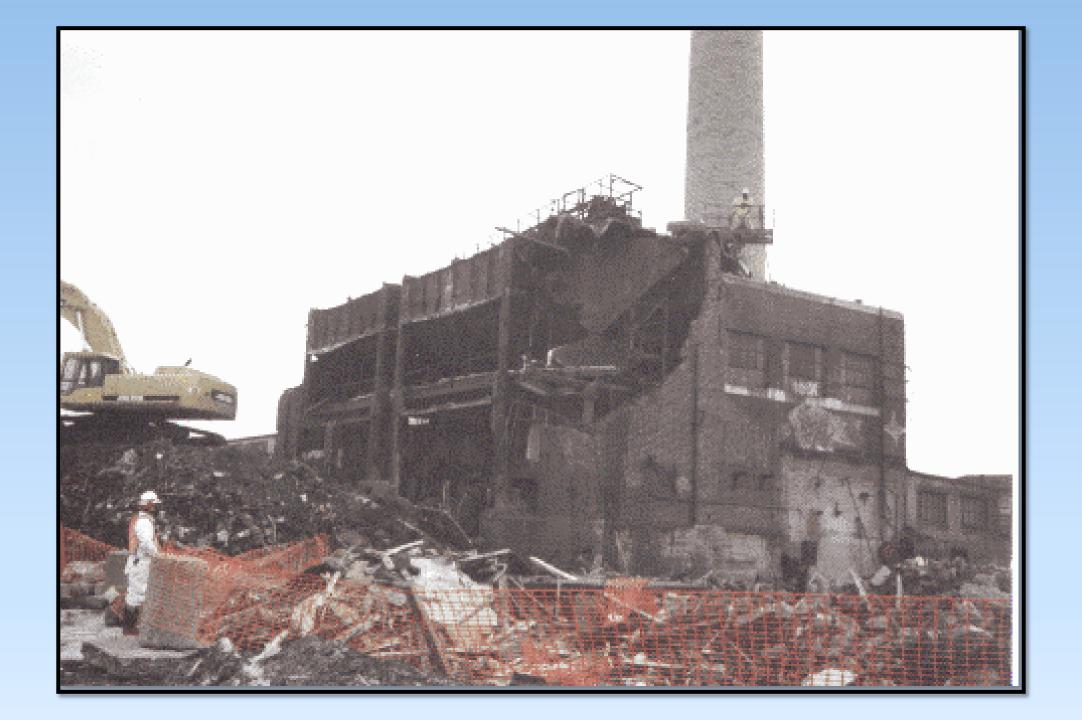
















How Was Contamination Spread?

1. Former Waste Lagoons

 Chemicals in lagoons released to surface water and groundwater

Land Surface Residual Product in Soil Pores Capillary Fringe Water Table Dissolved Contaminants Impermeable Layer

2. Fill Material

Chemicals in dredged soils used as fill material



EPA Definition of Raymark Waste?

"Raymark Waste in soil is defined as a single soil sample containing lead above 400 parts per million (ppm) [or mg/Kg], and asbestos (chrysotile, only) greater than 1 percent, and either copper above 288 ppm or polychlorinated biphenyls (PCBs) (Aroclor 1268, only) above 1 ppm."



Often no visible

evidence

Raymark Waste Exposed at the Raybestos Memorial Ballfield





EPA's Response History

- 1993 Removal Action
 - Nearly 500 properties sampled.
 - Excavation of RW completed at 46 residential properties and Wooster School.
 - Temporary soil cover added to non-residential properties including Morgan Francis.
- April 25, 1995 Raymark added to Superfund List
- July 1995 1st ROD issued (OU1) consolidated, capped, Stratford Crossing
- July 2011— 2nd ROD issued cap 576/600 East Broadway (Morgan Francis)
- September 2016 3rd ROD issued current clean-up work
 - Excavate about 105,000 cubic yards of soil and sediment from OU3 and OU6
 - Transport most waste to OU4 for consolidation and capping
 - Restore properties
- Remaining Operable Units OU2, OU5, OU7, OU8 and OU9

Why is Cleanup Necessary?

- Buried waste near the surface
- Erosion will continue to expose waste
- Future workers/digging
- Resources to effectively manage engineered controls

- "Actionable" exposure risks
- EPA required to mitigate risks





What Is Chemical Exposure?

You come into contact with a chemical and it gets into your body.

- Ingestion
- Dermal
- Inhalation
- Being exposed does not necessarily mean you will get sick/have health symptoms. These are long-term/chronic exposures.
- Toxic effects and carcinogens.



Cancer Risk Explained

- Average person's "baseline" cancer risk is not "zero".
- The American Cancer Society estimates that 1 in 2 men, and 1 in 3 women, will develop cancer over a lifetime.
- EPA estimates "additional" cancer risk over a "lifetime" exposure.

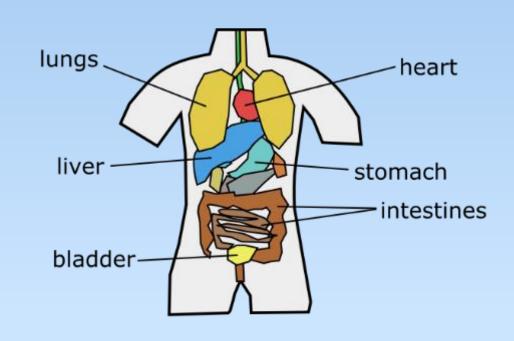




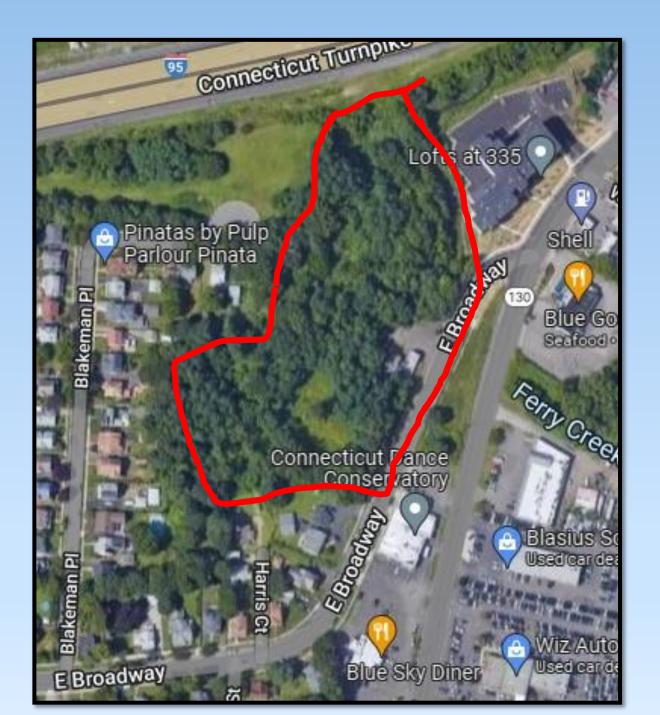
Toxic Effects

- Mortality
- Behavior
- Reproductive health
- Physiological changes
- Biochemical changes
- Ecological





NATURE AND EXTENT OF CONTAMINATION AT MORGAN FRANCIS



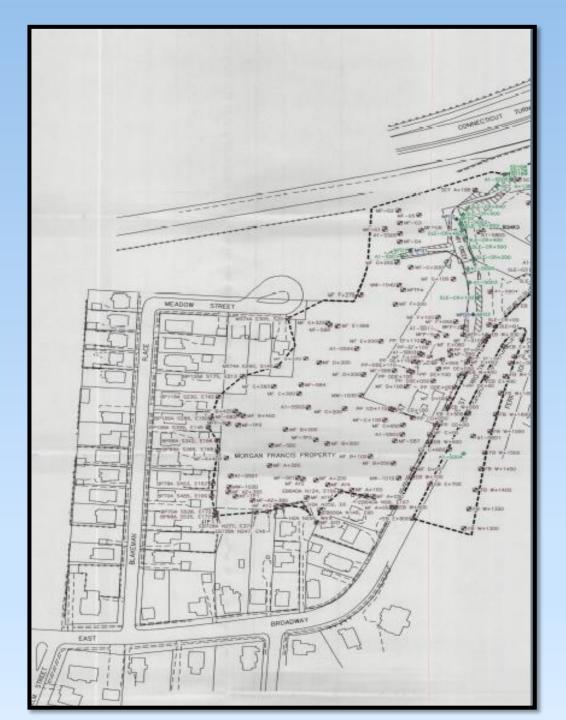


Morgan Francis Flagpole, Inc. 1948 to 1980

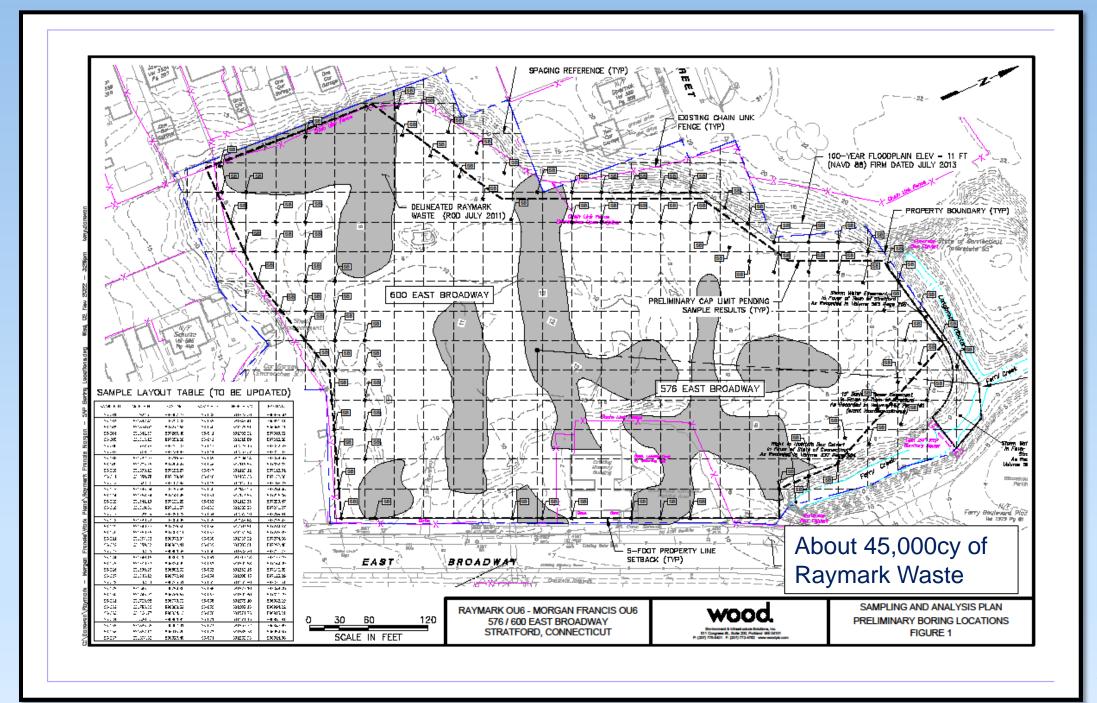
Located at 576/600 East Broadway

About 5 ½ acres

Grassy, some woods, small building and pavement



Historic Sampling



July 2011 ROD

• 576/600 East Broadway (Morgan Francis Property)

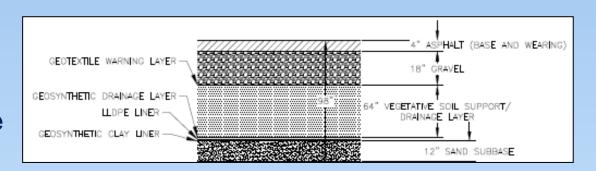
- Cap Raymark Waste in place
- Active developer planned reuse as storage units
- Currently being designed

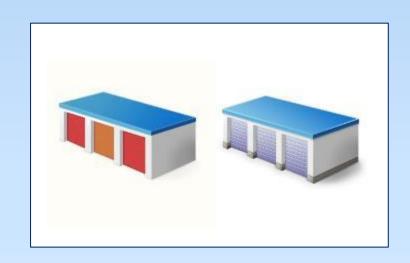
Third Avenue Property

- Excavate Raymark Waste and consolidate at 576/600 EB (if capacity)
- Is now included as additional property in 2016
 ROD

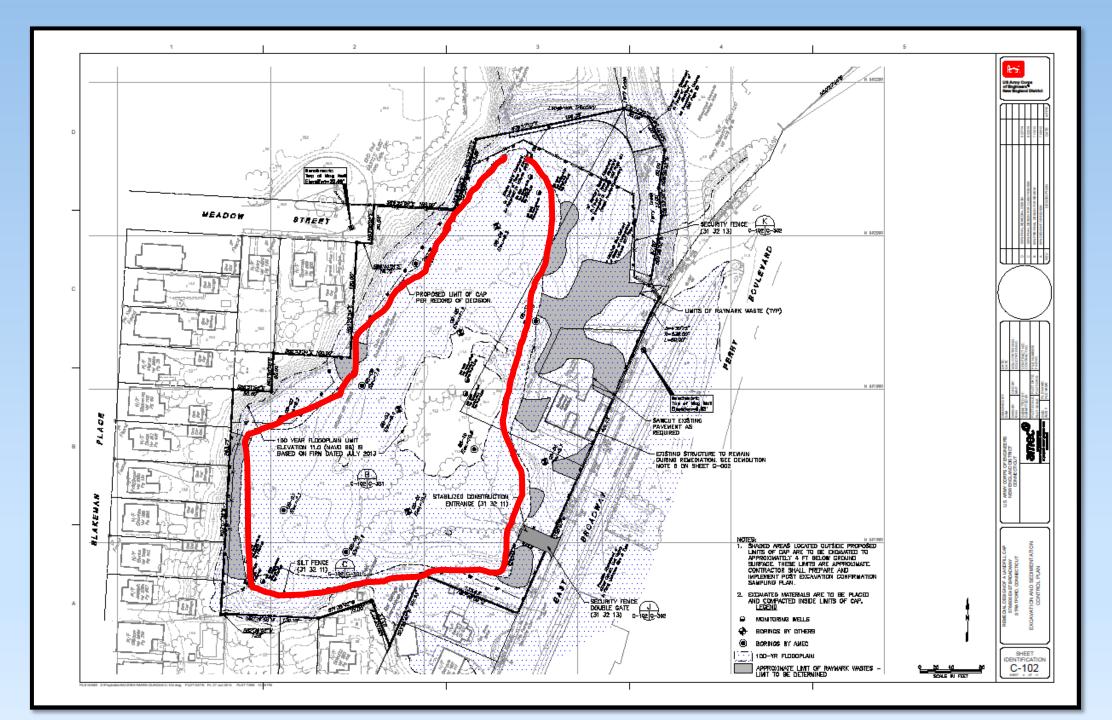
Beacon Point AOC2

Institutional controls to prevent digging



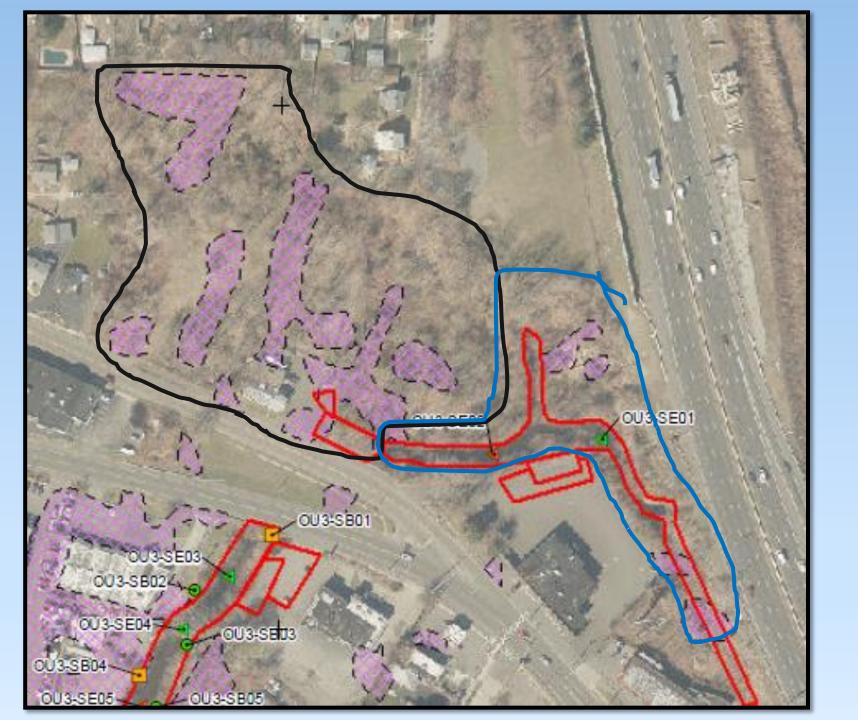


2014 REMEDIAL DESIGN



Design Update – What Has Changed?

- Current design does not cover all Raymark Waste.
- Updated policies allow capping/filling in a coastal flood zone.
- Cap will cover most of the property and be flatter.
- Commercial reuse has been deemed not practical. Too much peat/spongy material.
- The Town is considering recreational reuse.
- Plan to consolidate Raymark Waste from adjacent DOT parcel and uppermost Ferry Creek area (about 5,000yds).

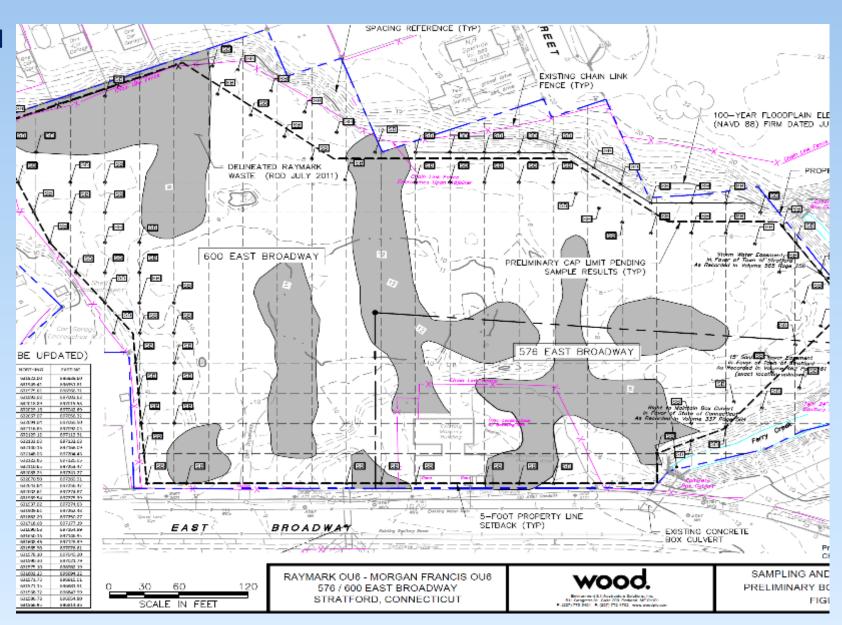


DOT Property and Uppermost Ferry Creek

Upcoming Field Work and Sampling Approach

Environmental Sampling

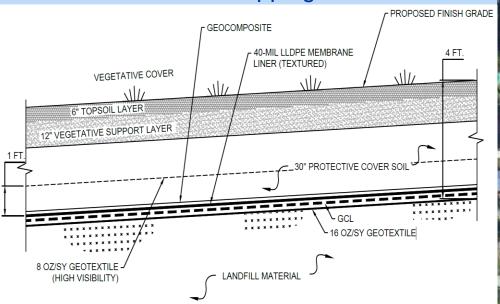
- Approximately 70 soil borings and 150 soil samples will be collected around the perimeter of the Morgan Francis property using direct – push soil sampling methods.
- Minor brush removal will be completed to access sample locations.
- All samples will be analyzed for Raymark Waste constituents, and CT RSR criteria at select locations.
- Why?
 - Determine the limits of the cap and support design.
 - Characterize areas we are not going to cap.
- Estimated Start Date: December 2022
- Estimated Duration: 10 days



Morgan Francis Design Update

Updated Design for Morgan Francis

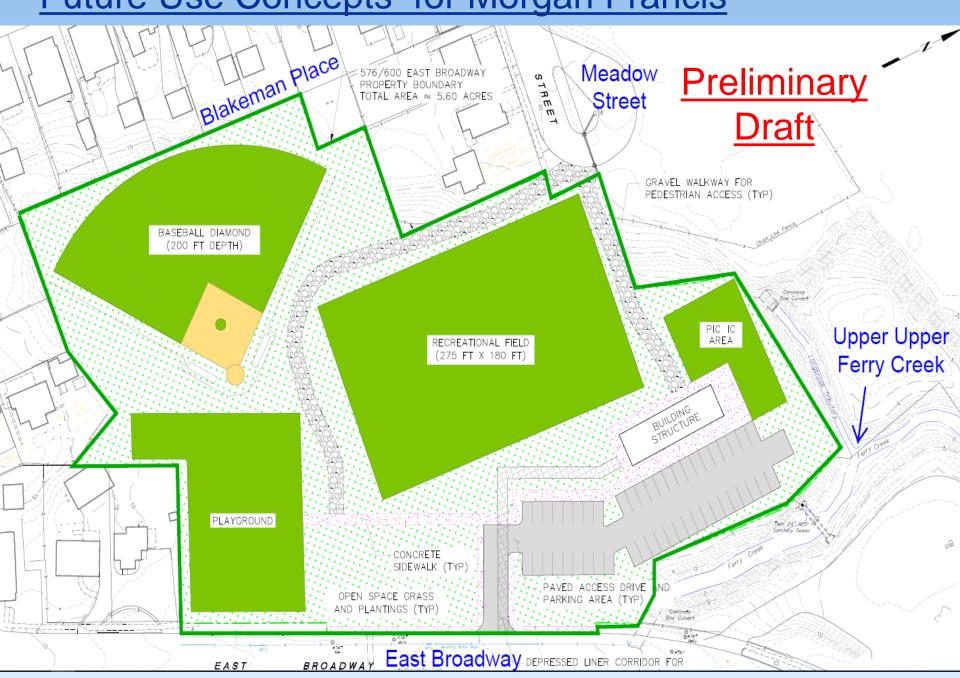
- Update to the 2014 design
- Design contract awarded to WSP
- Team offices in Portland, ME and Rocky Hill, CT
- Design to incorporate consolidation of waste from adjacent property (UUFC)
- Passive post closure use
- 4' Low permeability cap
- The site elevation is expected to rise approximately 6', most of that increase in elevation is from capping materials





Future Use Concepts for Morgan Francis

- Primary design focus to cover and secure waste on site
- Provide 4' of clean cover and a low permeability cap
- Control stormwater runoff
- Support post closure use
- Utility access
- Primary access off East Broadway likely



Why Does EPA Consider Future Use?

- EPA considers reuse concepts in our remedial design to:
 - Ensure the desired end use is safe
 - Design and grade the cap to facilitate reuse
- Redevelopment is a local planning issue
- EPA does not select reuse concepts or final plans
- EPA cannot fund redevelopment of the property

Morgan Francis - Tentative Schedule

2023 - Design update complete

2024 - Administrative requirements, funding, and remedial contract actions

2025 - Potential construction start



Questions?

- Unmute yourself and ask your question.
- Or use the chat box.

Upcoming Meetings

Next Morgan Francis Neighborhood Meeting –TBD

- Next Raymark Community Advisory Group Meeting -November 30 at 6:30pm (Hybrid)
 - In person at 300 Ferry Boulevard
 - Or join through GoToMeeting or phone

Thank you for joining!

 Visit <u>www.stratfordct.gov/Raymark</u> for updates, contact information, air monitoring results, meeting dates, meeting recordings and Powerpoint slides

 Email Alivia at: <u>acoleman@townofstratford.com</u> with further questions, concerns, feedback or to sign up for email distribution list.

Help Update Stratford's POCD!

- The Plan of Conservation and Development (POCD) is the Town's land use guide for managing growth and conserving resources.
- Learn more and provide your input at <u>www.planstratford.com</u>

