Quail St/Wooster Park
Neighborhood

Raymark Industries, Inc. Superfund Site Stratford, CT

> Jim DiLorenzo, EPA Mike Looney, USACE Dave Heislein, USACE

September 22, 2021







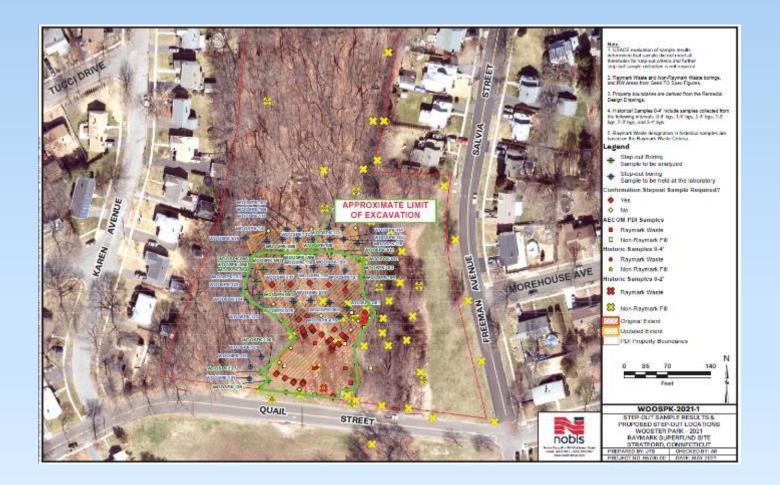
US Army Corps of Engineers®

Virtual Meeting Guidelines

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

RAYMARK WASTE LOCATION

Raymark Waste





Area

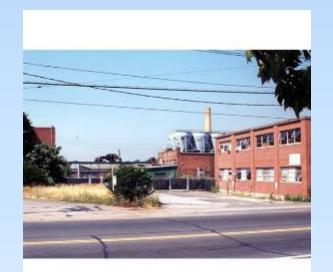
AGENDA

- I. CALL TO ORDER
- II. WELCOME, INTRODUCTIONS, VIRTUAL MEETING GUIDELINES
- III. BRIEF HISTORY OF THE RAYMARK SITE & SUMMARY OF THE CLEANUP DECISION (September 2016 Record of Decision or ROD)
- IV. NATURE AND EXTENT OF CONTAMINATION LOCATED NORTH OF QUAIL ST
- V. CLEANUP APPROACH AND TRUCK ROUTES FOR QUAIL ST. AREA OF WOOSTER PARK
- VI. SCHEDULE
- VII.QUESTIONS

BRIEF HISTORY OF THE RAYMARK SITE AND SUMMARY OF THE 2016 ROD

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



What Is 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."

Raymark Waste Exposed at the Raybestos Memorial Ballfield

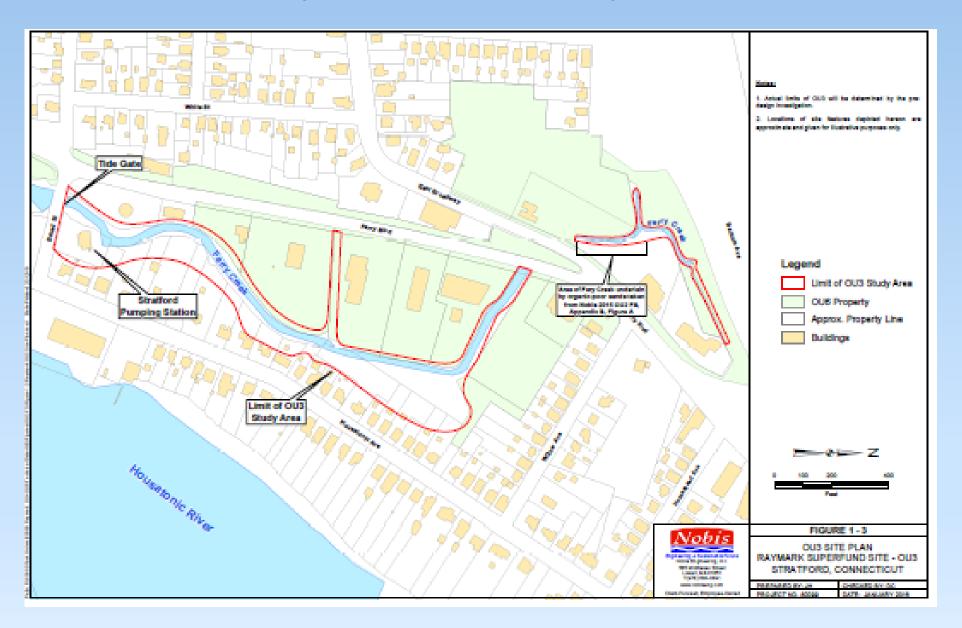


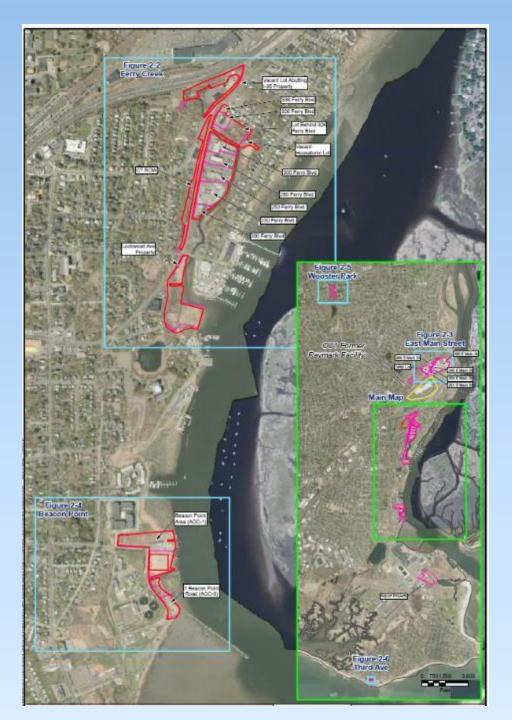
Soil/Sediment Contaminants of Concern (OUs 3, 4 and 6)						
Benzo(a)anthracene						
Benzo(a)pyrene						
Benzo(b)fluoranthene						
Bis(2-ethylhexyl)phthalate						
Dibenz(a,h)anthracene						
Indeno(1,2,3-cd)pyrene						
N-Nitroso-di-n-propylamine						
Dieldrin						
Aroclor-1242						
Aroclor-1254						
Aroclor-1260						
Aroclor 1262						
Aroclor 1268						
Dioxin						
Arsenic						
Chromium						
Copper						
Thallium						
★ Lead						
Asbestos						

EPA's Response

- 1993 Removal Action 46 residential properties and Wooster School
- 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
- 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
 - Transport PHC waste (worst) to haz-waste facility (~ 10%)
 - Backfill excavations and restore properties
 - Estimated cost is \$95 million
- Other operable units OU2, OU5, OU7, OU8 and OU9

Upper Ferry Creek Study Area (OU3)





Additional Properties Study Area (OU6)

	OU6 PROPERTY LOCATION	PROPERTY TYPE		
1	200 Ferry Boulevard	Active business		
2	230 Ferry Boulevard	Active business		
3	250 Ferry Boulevard	Active business		
4	280 Ferry Boulevard	Active business		
5	300 Ferry Boulevard	Active business		
6/7	Lot Behind 326 Ferry Boulevard (and adjacent vacant lot)	Vacant/lightly vegetated		
8	326 Ferry Boulevard	Active business		
9	336 Ferry Boulevard	Active business		
10	Lot Abutting I-95	Vacant/lightly vegetated		
11	Connecticut Right-of-Way	Vacant/lightly vegetated		
12	250 East Main Street	Active business		
13	251 East Main Street	Active business		
14	304 East Main Street	Active business		
15	340 East Main Street	Active business		
16	380 East Main Street	Active business		
17	DPW Lot	Active municipal		
18	₩ Wooster Park	Recreational		
19	Third Avenue Property	Residential		
20	Lockwood Avenue	Vacant/wetlands		
21	Beacon Point Area of Concern #1	Recreational		
22	Beacon Point Area of Concern #3	Recreational		

Quail Street Area Community Impacts

Air quality



Construction noise / vibration





Truck traffic

~1,000 trucks trips (2-3/hour)



- Air monitoring
- Mitigating measures (e.g. wetting)



TRUCKS/CONTAINERS





1.) Tight Cover 2.) Full Gasket



Why is Cleanup Necessary?

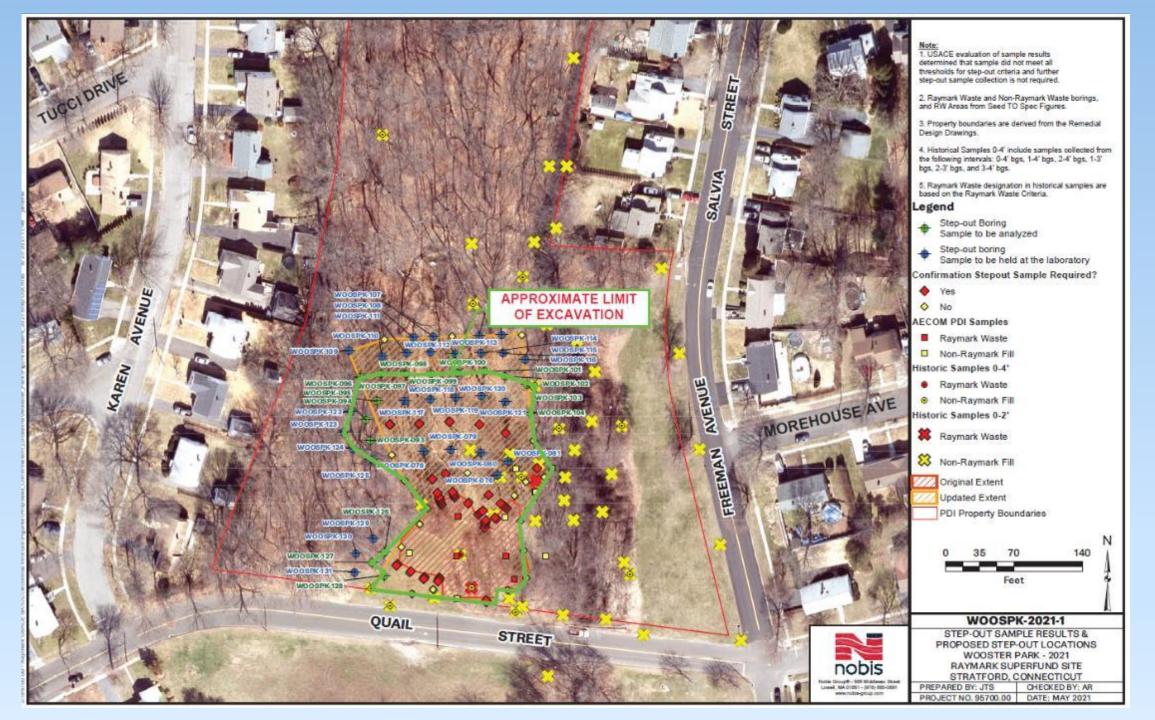
- Buried waste near the surface on many properties
- Erosion will continue to expose more waste
- Future workers/anyone digging
- Resources to effectively manage the consolidated area

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





NATURE AND EXTENT OF CONTAMINATION ON QUAIL STREET PROPERTY

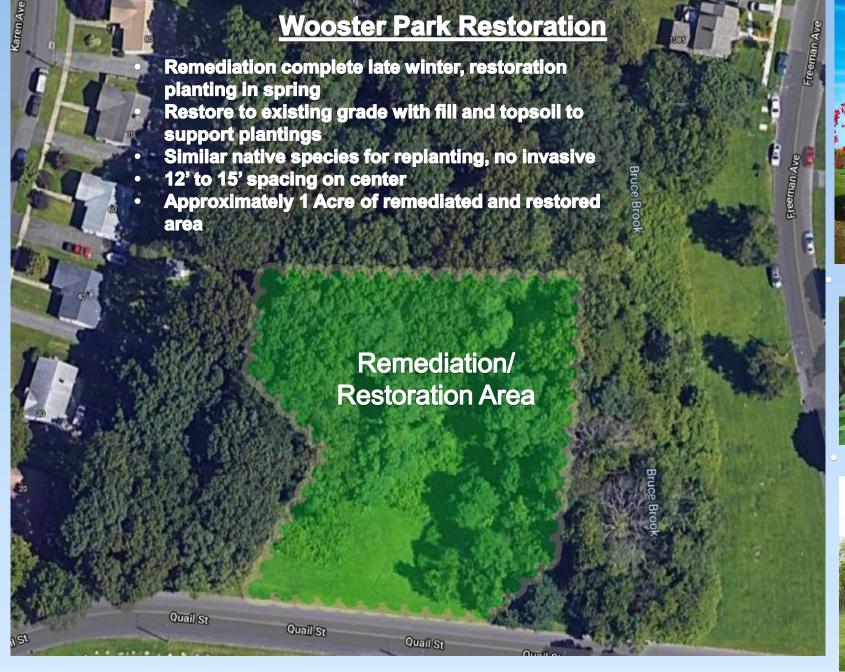


CLEANUP APPROACH















Serviceberry

Red Maple



Maple Leaf Viburnum



Sweet Pepperbush



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Consolidation Area – OU4 Ballfield



https://www.ipcamlive.com/5fc7c13309700



- Former Raybestos Memorial Ballfield
- Historically a low-lying area that was filled with approximately 100K CY of Raymark Waste
- Consolidation remedy entails placing 100K CY on top of existing waste
- Covering with impermeable engineered cap
- Design to support post closure use

ENGINEERING CONTROLS



 Perimeter concrete barrier, steel fence, heavy duty sound blanket



Erosion Control

Apply water, material always wet





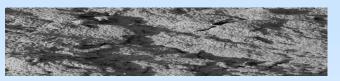


 Tightly sealed trucks / containers with gasketed gates



Real time air monitoring



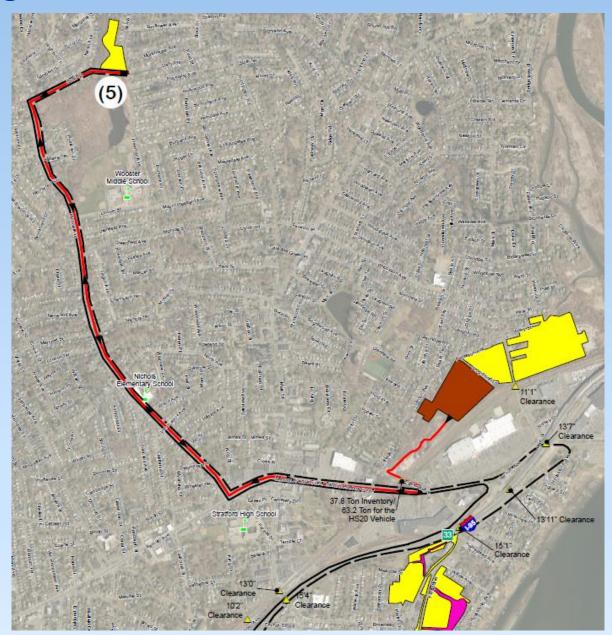


Posi shell cover system

TRAFFIC MANAGEMENT

Traffic Management Plan

- Incorporated lessons learned
- Trucks sealed, washed and labeled
- Coordination with Other Construction Projects – Town, UI, ConnDOT, etc.
- Quail St Nichols Ave Barnum Ave Cutoff
- Route requirements:
 - Avoid residential streets, schools and parks wherever possible
 - Avoid school bus route times wherever possible
 - Utilize new access road from Longbrook Ave
 - Plan 1-2 trucks per hour (round trip)
 - Typ 7:00 am to 4:30 pm M-F
 - No nights or weekends.
 - Police details for truck entering/exiting



AIR MONITORING

Perimeter Air Monitoring - Equipment

- Perimeter monitoring at OU4 and OU6 properties
- Monitoring of personnel immediately in the work area (OSHA).
- Wooster Park Meters include:
 - One upwind dust meter and chemical sample station next to work area
 - One downwind dust meter and chemical sample station next to work area
 - Personnel monitoring on construction worker within the work area

Meteorological Station



Chemical Sampling Port



Dust Monitoring Station



Personnel Monitoring



Raymark Air Monitoring Program

- Dust Action Level protect workers and abutting community
 - OU4/6 Dust Action Levels included chemicals at each property
 - Dust Action Level incorporated additional safety factors
 - Lower safety threshold STOP WORK before any potential risk to workers or community
- Separate Dust Action Level when restoring the park with clean backfill/loam and trees
- Chemical samples from all OU4/6 stations and personnel
- Construction exempt from Town Noise Ordinance
 - Noise monitoring to prevent public nuisance
- Vibration monitoring conducted
 - STOP Work = 0.5 inches/second



Air Monitor



Perimeter Air Monitoring – Response Actions

- Ongoing wetting during excavation, truck loading, backfill and compaction
- Dust meters reporting 15-min averages all day long
- Upwind dust + Dust Action Level will trigger text/emails to full-time site personnel
- Response actions implemented if 15-min average > Dust Action Level
 - Identify source
 - Document response actions implemented and results
 - Increase ongoing wetting of excavation, truck loading and backfill areas
- STOP WORK ORDER issued if four consecutive exceedances of 15-min average >DAL
- More response actions implemented before work can restart







SCHEDULE

OU6 Remediation Tracking Table

OU6 Parcel or Area	Location	Excavation Dates	Est. Volume (cy)	Actual Vol (cy)	# of truck trips?	Notes
Glyne Manufacturin g	380 East Main	Sept 16 -17, 2020	40	51.70	4	ELUR needed
Karate Studio	190 Ferry Boulevard	Dec 2 - 10, 2020	100	87.31	10	ELUR needed
Liquor Store	200 Ferry Boulevard	Dec 2 - 10, 2020	500	481.83	64	ELUR needed
DOT ROW along 190/200 Ferry Blvd	190/200 Ferry Boulevard ROW	Dec 2 - 10, 2020	N/A	109.30	11	ELUR needed
DOT Exit 33	Barnum Ave	Jan 19 – 20, 2021	420	345.57	19	DOT via Haul Road
Ashcroft	250, 304	F.1.40 A. 3140	5,000	2,785.3	251	ELUR needed
(front), Dry Cleaner and Hair Salon	and 340 East Main Street	Feb 16 – April 19, 2021	PHC -750	794.60	60	To Emelle, Al
Ashcroft			~8,500	7,269	588	ELUR needed
Rear (Volume as of Sept 8)	250 East Main Street	June 9 th to ???	PHC - ~500	377	35	To FTS/bind lead
TOTALS TO DATE =		Non-Pl		11,130.01	947	
		PHC		1,171.60	95	

Current Remediation Schedule

- September 2020 to October 2021
 - East Main Street and Small Isolated Areas on Ferry Boulevard
- November 2021 to February 2022
 - Remediate Quail Street area
 - Approximately 3 to 4 months to complete
- February 2022 to October 2022
 - Remediate select OU6 properties around town (Vacant Lots on Ferry Blvd, Beacon Point, Third Ave home)
- October 2022 to late 2023
 - Remediate Ferry Creek (OU3) and Ferry Boulevard properties
- 2021 to 2024
 - Construct stormwater conveyance system and pump station
 - Construct Impermeable OU4 Cap



Questions?

- Be respectful of time so everyone has a chance to speak
- We will monitor the chat box for questions
- Please speak one at a time.



Thank you for joining!

- Visit <u>townofstratford.com/Raymark</u> for updates, meeting dates, meeting recordings and slides
- Email Alivia at: <u>acoleman@townofstratford.com</u> with further questions, feedback or to sign up for email distribution list.