

Public Information Meeting January 24, 2013

Meeting Summary

Introduction

The meeting began at 7:05 pm. Mayor Antonia Ricigliano welcomed attendees to the Edison Municipal Complex.

Ms. Sandra Piettro of the U.S. Army Corps of Engineers (USACE) welcomed members of the public attending the meeting of the Raritan Arsenal FUDS (Formerly Used Defense Sites) project. Ms. Piettro asked the participants to use the sign-in sheet and pointed out flyers and other information pertinent to the project. Mr. Piettro reminded the participants that the meeting will discuss topics related to the Raritan Arsenal FUDS project and not hurricane relief initiatives.

Ms. Piettro summarized the agenda for the evening's meeting regarding the former Arsenal, which included information on site history, an overview of recent site activity in Operable (Decision) Units and Areas, milestones, planned activities, funding, and safety education related to munitions.

Presentation / Site History

Ms. Piettro started her presentation by providing the history of the Mission of the Arsenal from 1917-1963. The Arsenal was used for shipping and storage of ordnance material; general supplies to other arsenals and military facilities; and stored, modified, and shipped military vehicles.

The decontamination process was completed in October 1963. The Arsenal was closed in 1964. When operational, the Arsenal consisted of 3,234 acres, approximately 440 buildings, 2.8 million square feet, with over 62 miles of roads and railways.

In 1963 Government officials and citizens proposed an orderly conversion of property from military to civilian use recommending that two-thirds of Arsenal be targeted for future industrial use, which is now the Raritan Center.

In 1964, GSA sold 2,360 acres to private landowners. EPA/GSA, Middlesex County College and Thomas Edison Park retained 840 acres of former Arsenal property.

Operable (Decision) Units

Ms. Piettro explained that based on the property boundaries the investigation was divided into six operable (decision) units:



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1. Site-wide Groundwater/Indoor Air/Vapor Intrusion

- Groundwater/Indoor Air/Vapor Intrusion Feasibility Study (FS). The objective of the study is to evaluate possible alternatives and select final remedial actions to address the groundwater contamination in Areas of Concern (AOCs): 2,4A, 3B, 6A, 6B, 6C, 8A/B, 8D, 9 and 10. The FS is being prepared and will be submitted to NJDEP (New Jersey Department of Environmental Protection) for their review in summer of 2013.
- **Groundwater Long Term Monitoring** The objective of the investigation is to monitor the natural attenuation of contaminants in groundwater.
 - o Natural Attenuation is a technique used to monitor or test if the concentration of contaminants in groundwater is decreasing without human involvement.

For 6 Areas of Concern (AOCs) 2, 4, 6, 8, 9 and 10, the first and second rounds of sampling were completed in 2010 and 2012 respectively. Future sampling will be scheduled every five years for the next thirty years (until 2042).

Previous sampling results showed that the levels of contamination are decreasing. AOCs 1, 3, 5 and 7 have been addressed and no further action is required at these four sites.

- Groundwater/Indoor Air/Vapor Intrusion Feasibility Study

Currently the objective of the FS is to monitor 8 industrial buildings for volatile organic compounds (VOCs) in indoor air and sub-slab soil gas. The results are documented in the Indoor Air Quality Reports. Report # 8 is being generated for NJDEP review.

- What is Vapor Intrusion? Volatile chemicals can evaporate from groundwater and soil and may build up in the indoor air of nearby buildings.
- What is a Vapor Mitigation System? A system designed to reduce the air pressure beneath the building to keep vapors that may have collected there from entering into building.



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2. Middlesex County College Property

Following the CERCLA, or Superfund, process, a Remedial Investigation (RI) Report has been prepared and submitted for NJDEP review in December 2012. The Proposed Plan will be generated after the RI is final. During the Proposed Plan, USACE will present the cleanup strategy for public review and comment.

3. Thomas Edison Park Property/Areas 9, 10, 19

This property is being addressed under Site-Wide Hazardous, Toxic Waste (HTW) and Military Munitions Response Program (MMRP). An RI/FS will be generated followed by a Proposed Plan and a Decision Document.

4. Commercial/Industrial Area

The Draft Final RI report is expected to be completed in early 2013 and will be submitted for NJDEP review in the summer of 2013. A Proposed Plan/Decision Document will be generated after the Remedial Investigation/Feasibility Study is final. During the Proposed Plan, USACE will present the cleanup strategy for public review and comment.

- Area 5. Remedial Investigation/ Feasibility Study

USACE is currently working on developing a Work Plan Addendum which is expected to be completed in early spring 2013. After NJDEP review, the field investigation work will commence during the fall of 2013. A Remedial Investigation/Feasibility Study will be developed after the Work Plan has been approved by NJDEP. A Proposed Plan/Decision Document will be generated after the Remedial Investigation/Feasibility Study is final. During the Proposed Plan, USACE will present the cleanup strategy for public review and comment.

5. USEPA/GSA Property (Area 1 and 18A through G)

A Draft Remedial Investigation Report has been generated and it will be submitted for NJDEP review during the summer of 2013. Any additional data gaps associated with Area 18D that were addressed under the Site-Wide HTW and MMRP RI/FS may be investigated under a separate operable unit.



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6. Undeveloped Wetlands Area (Areas 6, 6A, 6B, 11, 12, 13, 16)

A Draft Remedial Investigation Feasibility Study Work Plan has been generated. The Work Plan documents and explains the rationale for the field activities. After the Work Plan has been approved by NJDEP, the field investigations are expected to commence during the fall of 2013. A Proposed Plan/Decision Document will be generated after the Remedial Investigation/Feasibility Study has been approved by NJDEP and finalized. During the Proposed Plan, USACE will present the cleanup strategy for public review and comment.

Site-Wide Hazardous Toxic Waste and Military Munitions Response Program Remedial Investigation/Feasibility Study (12 investigations areas: 1, 6, 6A, 6B, 10, 10C, 11, 12, 13 (Pier), 16, 18D and 9/19)

USACE is in the process of generating a Draft Final Remedial Investigation Feasibility Study Work Plan which will be submitted to NJDEP in spring/summer 2013. There will be an All Hands Safety meeting prior to commencing the field work; the meeting will include representatives from the Township of Edison (Department of Health, Office of Emergency Management, New Jersey Forest Fire Service, Police Department and Fire Department). The field work is expected to commence during the fall of 2013. A Proposed Plan/Decision Document will be generated after the Remedial Investigation/Feasibility Study has been approved by NJDEP and finalized. During the Proposed Plan, USACE will present the cleanup strategy for public review and comment.

Fiscal Year 2013 Milestones

Ms. Piettro presented a list of all documents and activities that will be generated this year:

- Groundwater Compliance Monitoring Progress Report
- Feasibility Study Groundwater / Indoor Air (Vapor Intrusion)
- Indoor Air Quality report #7
- Indoor Air Quality report #8
- Management Action Plan
- Work Plan: Area 5 Remedial Investigation / Feasibility Study
- Remedial Investigation and Remedial Actions Summary Report Middlesex County College
- Proposed Plan Middlesex County College for public comments
- Remedial Investigation and Remedial Actions Summary Report Thomas Edison Park



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- Remedial Investigation and Remedial Actions Summary Report Commercial / Industrial Area
- Remedial Investigation and Remedial Actions Summary Report USEPA / GSA property
- Work Plan: Site-wide Remedial Investigation / Feasibility Study
- Commence fieldwork activities at various areas
- Community Relations Plan
- Stakeholders Working Group Meetings April and October 2013
- Public Information Meetings January and November 2013

Fiscal Year 2014 - Future Planned Activities

Ms. Piettro summarized the future and planned activities for the site:

- Proposed Plan Groundwater / Indoor Air (Vapor Intrusion) for public comments
- Annual Indoor Air Quality report #9
- Decision Document Middlesex County College
- Proposed Plan Commercial / Industrial Area for public comments
- Decision Document Commercial / Industrial Area
- Remedial Investigation / Feasibility Study report Area 5
- Remedial Investigation / Feasibility Study Site-wide Munitions and/or Hazardous, Toxic Waste
- Stakeholders Working Group Meetings March and October 2014
- Public Information Meetings April and November 2014

Funding

Ms. Piettro presented the current funding for Raritan including the funds already spent and the cost to complete, which is subject to change as the remedial investigations progress:

-	Funding Spent to date	\$86.5 M
_	Funding Allocated in 2012	\$1.9 M
-	Planned Budget in 2013	\$1.7 M
_	Total cost to complete	\$31.8 M



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CERCLA process

Ms. Piettro reminded the participants that the investigations are being developed following the CERCLA process and showed a graphic showing the phases. Ms. Piettro noted that currently most of the documents are in the Remedial Investigation phase, followed by the Feasibility Study and Proposed Plan Phase. When all the comments have been addressed, including those from the public, a Record of Decision is produced and the remedy is executed.

Military Munitions Response Program (Ordnance) Safety

Ms. Piettro reminded the participants to pick up some of the materials related to ordnance safety available at the meeting. Ms. Piettro stated that USACE remains committed to protecting the public safety by reducing the risk presented by the presence of military munitions to the maximum extent possible. Ms. Piettro stressed to the public that military munitions are always dangerous and explained the "3Rs" of explosive safety:

- RECOGNIZE when you may have encountered ad munitions
- RETREAT do not touch, move or disturb it, but leave the area
- REPORT call 911 and advise the police what you saw and where you saw it.

Ms. Piettro left the attendees with her contact information, including a link to the USACE's former Raritan Arsenal webpage with fact sheets, meeting information, and documents for public review.

 $\frac{http://www.nan.usace.army.mil/Missions/Environmental/EnvironmentalRemediation/For}{merlyUsedDefenseSites/FormerRaritanArsenal.aspx}$

Questions from Community Members and Answers Provided

Question: Does the fact sheet summarize all the investigations completed on the units?

Answer: The public can obtain more information on the investigation by submitting a Freedom of Information Act (FOIA) request. During this presentation I will provide you with more details of the progress of the investigation.

Question: What are the shaded areas shown on the board?



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Answer: Those areas are the removal actions done back in the 90s. USACE is in the process of assessing those areas again to make sure that on that side of the river the remedial actions have been completed and no contaminants remain.

Question: If the developers want to build condominiums, are the remedial actions performed to industrial or residential standards?

Answer: All the munitions were removed; USACE will make sure the developer knows if there are any restrictions for the site.

Question: When is the most recent discovery of munitions?

Answer: They found one on Clearview Road in October 2011 as they were developing the parking lot. They followed the correct process, called 911 – A team from Explosive Ordnance Disposal (EOD) responded and closed the property for a couple of hours to address the risk; it was an item empty of explosives. The reporting process worked very well.

Question: Is the work being performed at the docks area changing your original plans?

Answer. No. USACE is working closely with property owners. USACE does not own the property. The intention is to address any potential issue before any development based on the results of the investigations.

Question: Is the work being performed in Sayreville related to the Horseshoe Road Superfund site?

Answer: No. Horseshoe Road is a Superfund site, contamination there is not related to activities at the former Raritan Arsenal.

Question: Area 5 was cleaned in the 1990s, were there chemicals at the site? During the investigation have you found any traces?

Answer. No.

Question: Is every five years a normal sampling schedule?

Answer: USACE has been sampling the site since 1999, we have a lot of data that covers many years, and some of the buildings investigated in 1993 were sampled twice a year; we know what to expect. Sampling every 5 years is a standard monitoring process.



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Question: During Hurricane Sandy when electricity was lost, were there any impacts on the vapor recovery systems?

Answer: No, some of the systems work on solar energy

The meeting ended at 7:40 pm.

There was a meeting sign-in sheet: 11 members of the public attended the meeting as well as representatives from USEPA and the Township of Edison; NJDEP representatives did not attend.

Meeting adjourned.





US Army Corps of Engineers®

You are invited to attend a Public **Information Meeting** for the Former Raritan **Arsenal Site**

The U.S. Army Corps of Engineers, New York District, will discuss ongoing cleanup activities, progress toward site closure, recent ordnance-removal actions and the status of the indoor-air investigation at the former Raritan Arsenal site, located within boundaries of the Raritan Center.

Please join us:

Thursday, January 24, 2013 at 7:00-9:00 pm **Edison Municipal Complex • Council Chambers** 100 Municipal Boulevard • Edison, New Jersey

> Agenda 7:00 pm: Presentation 8:00 pm: Questions and Discussion

For more information, you may contact:

Ms. Sandra L. Piettro, Project Manager 917-790-8487 • Sandra.L.Piettro@usace.army.mil U.S. Army Corps of Engineers - New York District Jacob K. Javits Federal Building 26 Federal Plaza, Room 1811



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SEARCHlocally



Towns trying to prepare better for disasters

Experts at forum suggest methods, including a flood-map tool

By Stephen Stirling STAR-LEDGER STAFF

NEW BRUNSWICK — As New Jersey continues to pick up the pieces from Hurricane Sandy, planning experts and municipal officials are beginning to come together to decide how best to put the state back together.

Sustainable Jersey, an academic research organization, hosted a forum at Rutgers University yesterday to discuss the potential challenges posed by climate change and how municipalities should look to guard themselves against flooding, be it coastal or inland.

David Robinson, the state climatologist at Rutgers University, said New Jersey should plan for more extreme weather

and rising sea levels, which are estimated to be as much as 3 feet higher by 2100.

"I'm afraid we're in for more interesting, exciting conditions as the years go on," he said. Officials from several mu-

 $nicipalities, both \ those \ affected$ by Sandy and Tropical Storm Irene in 2011, discussed what protections they have in place to protect their communities from storms, what worked and what hasn't after two years of extreme weather in the Garden State. In Hoboken, largely spared

by Irene, Assistant Business Administrator Stephen Marks said residents and the city underestimated Sandy, and paid the price for it.

"A lot of people took it for granted and I think even the

municipality took it for granted, because Irene wasn't that bad," he said.

Marks said the city is considering major building code and zoning changes, after more than 1,700 ground-floor apartment units were flooded during Sandy. Joel Sonkin, Newark's di-

rector of environmental and energy services, said the city must enact similar measures and put together a more concrete response plan for major weather disasters. "We were able to be pretty

effective in our response, fortunately," Sonkin said. "But it's important for us to put together a plan to be able to respond in a situation like this, rather than just react."

ucation Center, is partnering with Rutgers to develop a tool that will help municipalities better plan for the future. The tool, called NJ Flood Mapper, will allow municipal officials to simulate sea-level rise in their communities and analyze what areas of their towns may be increasingly vulnerable over the next century.

One thing is clear, according to the state Department of Environmental Protection's Mariana Leckner: rebuilding has to be a cooperative effort, not a solitary one.

"Municipalities tend to plan in isolation. I don't see a lot of interagency planning," Leckner said. "We need to crosspollinate.

Stephen Stirling: (973) 392-4174 or Lisa Auermuller, of the sstirling@starledger.com

Seaside Heights expects a rebuilt boardwalk by May

Borough awards \$3.6 million contract

By Wayne Parry ASSOCIATED PRESS

The iconic boardwalk where generations of families and teens got their first taste of the Jersey Shore — and where the reality show of the same name was filmed — is about to be rebuilt after it was destroyed by Hurricane Sandy.

Seaside Heights awarded a \$3.6 million contract last night to have the boardwalk rebuilt in time for Memorial Day weekend.

One of the most popular and heavily used boardwalks at the Jersey Shore, the Seaside Heights walkway was destroyed when the storm hit

Officials say it is the centerpiece of the borough's tourist industry, which funds 75 percent

of the municipal budget.

"A lot of people love Seaside and want to see what's happening this year," Mayor William Akers said. "If they don't come back, we don't eat.'

Florence Birban, a 47-year resident, said the boardwalk means a lot to homeowners.

We need a boardwalk here to bring in the revenue and keep our taxes from going up, hopefully," she said. "It just looks wrong without a boardwalk. I look up the street and I don't see one, and it's not right."

The work should be done by May 10.

The contract just covers replacement of the boards and the substructure beneath it. Akers said a future contract will include ramps, railings and a protective sea wall.

Borough Administrator John Camera said the entire length of the mile-long boardwalk will be rebuilt.

WELCOME NEWS

That was good news for Sue Poane, another longtime resident concerned about the town's financial future, as well as its quality of life.

"We need the people to spend their money here; we need the boardwalk back for the businesses," she said. "My husband and I walk the boardwalk every Sunday afternoon. We have our supper at our special place - they have the best seafood in the world! — and then we sit and people-watch."

Seaside Heights is the second major boardwalk to see rebuilding begin; Belmar started work on its walkway last week.

Spring Lake has also started fixing its boardwalk, as has Point Pleasant Beach. Thus far in Seaside Heights,

there is no plan to remove the

remains of the Jet Star roller coaster from the ocean, where it sits after plunging off a collapsing pier during the storm. The coaster's owners are negotiating with insurers over how and when a salvage operation will be carried out.

But town officials want it removed; last week a man sailed a small boat to the coaster, climbed to the top and affixed a flag before being talked down and arrested by police.

Officials and some residents are worried about liability for the coaster if someone is injured on or near it. The beachfront remains off-limits and is guarded by police and state troopers.

Coast Guard extends review process for Bayonne Bridge

By Steve Strunsky TAR-LEDGER STAFF

Two weeks after issuing a

positive preliminary assessment of a proposal to raise the Bayonne Bridge, the U.S. Coast Guard has agreed to a request by a Newark-based neighborhood and environmental coalition to extend the comment period and hold a public hearing.

Raising the bridge will be a \$1 billion project intended to allow larger supertankers to pass underneath, thus preserve billions of dollars in economic activity and thousands of jobs at shipping terminals in Newark and Elizabeth. The Coast Guard is the permitting agency for the plan.

Port and elected officials, labor groups and shippers say raising the bridge as quickly as possible is critical for when huge Post-Panamax vessels begin traveling from Asia to East

Coast ports through a widened Panama Canal.

Christopher Bisignano, the Bayonne Bridge project manager for the Coast Guard, said the agency decided yesterday to extend the 45-day comment period by another 15 days, to March 5. Bisignano also said a Newark meeting was scheduled for Feb. 13, at a location to be determined, in addition to meetings initially set for Feb. 5 in Bayonne and Feb. 7 on Staten Island. He said the changes were the result of concerns about the potential health impacts of the project expressed by the Newark-based Coalition for Healthy Ports.

"It's still not a closed book as to where this is taking us," Bisignano said of the review process, which he insisted would not be hurried by pressure from political or business interests. "We are an objective all facets of this project. It'll get done when it gets done." In July, the Obama admin-

istration granted the project

fast-track review status, citing its importance to the region's economy. The coalition recently wrote to the Coast Guard seeking a longer comment period and

there was adequate opportu-

residents potentially impacted by the project. tainer volume and truck traffic resulting from the project will increase harmful emissions in poor neighborhoods surround-

ing the shipping terminals. Using data provided by the Port Authority of New York and New Jersey, the Coast Guard said in a draft environ-

regulatory agency looking at 4 that the bridge project would result in 54 additional trucktrips. Even so, the assessment concluded that, "minority and low-income populations would not bear a disproportionately high and adverse share of operational or construction impacts.

The coalition is working with the Newark-based Easta Newark meeting to insure ern Environmental Law Center, and will sue to block the nity for comments on behalf of project if the review process is inadequate, said Kim Gaddy of the New Jersey Environ-They say an increase in con-mental Federation, a coalition member.

> Beverly Fedorko, a spokeswoman for the New York Shipping Association, which supports the bridge project, said the coalition's input was healthy.

Steve Strunsky: (973) 392-1544 or sstrunsky@starledger.com





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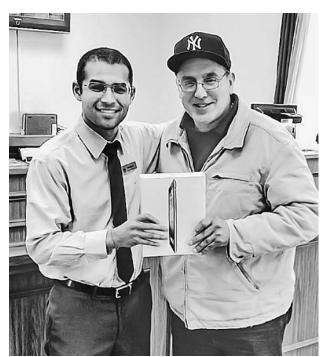
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Unity Bank hands out iPad prizes



Unity Bank gave away eight iPads through a recent contest at the bank's branches and online that was open to all residents of New Jersey and Pennsylvania. Above: Unity Bank South Plainfield Branch personal banker Jonathan Garcia (left), with iPad winner Charlie George of South Plainfield. The other winners were Denise Capici of the Somerset section of Franklin, awarded by the Somerset branch; Ajay Chandrashekar of Green Brook, awarded by the Somerset branch; Dolores Galoppo of Stewartsville, awarded by the Phillipsburg branch; Virginia Bray of Clinton, awarded by the Clinton branch; Maya Chhabria of Somerset, awarded by the Somerset branch; Dominick Agiesta of Phillipsburg, awarded by the Phillipsburg branch; and Steven Roll of Flemington, awarded by the Flemington branch. SPECIAL TO NJ PRESS

It's not too late to get your influenza shot

Staff Report

The Middlesex County Office of Health Services reminds residents that it is not too late to receive your

According to the Centers for Disease Control and Prevention latest reports, influenza activity has increased in the U.S. New Jersey is experiencing high levels of flulike illness.

Flu shots are available at the Public Health Clinic, 596 Jersey Ave., Suite B, New Brunswick, from 1 to 3 p.m. Tuesdays and Thursdays.

Cost of the vaccine is \$15, which will be accepted in cash only, and exact change is strongly recommended. No bill larger than \$20 will be accepted. Residents who present a valid Red, White and Blue Medicare card will not be charged, and their Medicare will be billed.

The Middlesex County Board of Chosen Freeholders, through the Office of Health Services, is committed to meeting the health needs of our residents and is happy to be able to continue to offer influenza vaccinations," Middlesex County Freeholder Director Christopher D. Rafano said. "The best way to protect yourself, your family and your co-workers is to get a flu shot each year."

"We are just coming into the

height of flu season, so there is still time for all those who want to get a vaccine to do so," said Freeholder H. James Polos, chair of the county's Public Safety and Health Committee. "Residents can take advantage of our weekly clinic to do this."

The CDC continues to recommend influenza vaccination for people who have not yet been vaccinated this season.

A flu shot is especially important for certain groups of individuals who are at higher risk of developing serious flu-related complications. These groups include pregnant women, children under 5 and especially those under 2, 65 and older, and people with certain chronic medical conditions (such as asthma, heart disease, cancer, diabetes and HIV).

Other people for whom vaccination is important include those who live in nursing homes and other long-term care facilities, and people who live with or care for those at high risk for complications from the flu.

Health-care workers are recommended to receive the flu vaccine to reduce the transmission of influenza-related illness and death, especially to patients at increased risk for severe flu complications.

Everyone six months and older should get a flu vaccination each year, but good health habits can also help protect against the flu," Middlesex County Office of Health Services Director-Health Officer Lester Jones said.

You also can help reduce the spread of flu if you:

» Stay home when you are sick; » Avoid close contact with people who are sick;

» Clean your hands often (keep alcohol-based hand sanitizers in your purse, car and backpack, when soap and water is not available):

» Avoid touching your eyes, nose or mouth as much as possible;

» Cover your mouth and nose with a tissue when you cough or sneeze, then throw away your used tissue;

» Get regular exercise, enough rest and eat healthy, balanced meals.

For additional information, call the Middlesex County Office of Health Services at 732-745-3100 or visit http://co.middlesex.nj.us/ publichealth/flu-clinics.asp.

You can also search for additional flu clinics in your area by calling 211 or by visiting the New Jersey Department of Health's Find a Flu website www.state.nj.us/health/flu/ findflushot.shtml.

Police blotter

LINDEN

ARMED ROBBERY, 12:10 p.m. Jan. 16. Detective Lt. James Sarnicki said the A-1 Deli at 1004 Roselle St. was the target of an armed robbery. According to Sarnicki, the owner was behind the counter when the suspect, described as "a young black man in his mid-20s wearing a turquoise baseball cap and blue and white jacket with the No. 3 over the left breast area," entered the store. Sarnicki said the suspect asked for a "black and mild," then turned and locked the store door. As he was facing the door, the suspect placed a gray bandanna over his face and turned around and brandished a black handgun, Sarnicki said. He then ordered the store owner to put all the money in a bag but didn't wait for the owner to respond and went behind the counter to take the

money from the cash register and lottery machine. He also ordered the owner to lie on the floor as he took the money, Sarnicki said. The officer said it is not known how much money was taken. Detectives searched the area but were unable to locate the suspect. They are reviewing surveillance tape, Sarnicki said.

PERTH AMBOY

STABBING AND THEFT, 8:30 p.m. Jan. 12. Police

are investigating the stabbing and robbery of a taxi driver for the White Cab Co. who picked up a passenger at the company's main office at 737 State St., police said.

The suspect is described as a black male wearing a blue baseball cap, a blue jacket with white stripes on the sleeves, and khaki or gray pants, police said.

The suspect asked to be driven to Thomas Street, and as the cab approached the area, the

suspect redirected the cabbie to Summit Avenue, police said. As they approached Spruce Street, the suspect demanded money from the cabbie. When the cabbie refused, the suspect stabbed him in the abdomen, took his wallet containing \$160 in cash and fled the scene toward Amboy Avenue.

Police are asking anyone with information on this crime to call 732-442-4400.

PLAINSBORO

FRAUD. Patrolman Jason A. Mandato was dispatched to a report of fraud at 4:50 p.m. on Jan. 12. Police said the victim's debit card was used to make \$2,416.50 in ATM withdrawals from machines in Hoboken and Jersey City. The victim was unable to provide any leads in this case, police

Source: Local police departments

DECOR

Continued from Page B1

small room settings and other unique throughout the year."

The Watchung store is more than 10,000 square feet and will employ approximately 15 to 18 people.

As a store manager, Wheeler directs the daily operations of the store, in addition to being an ambassador of the Kirkland's brand. He said the location offers distinct advantages.

'Based on population demographics, Watchung is a great fit for us," he said. "Because we have a wide selection



Kirkland's, a new specialty home decor and gifts retailer at the Watchung Square Mall. KATHY JOHNSON/STAFF

of ever-changing prodperfectly complement ucts, the mall setting will

COOKIE

Continued from Page B1

"I love being able to make up different things to say to people every week, answering questions and teaching younger Girl Scouts how to get more sales," Vittoria said.

This year, she will be using the latest in technology and will be accept credit cards at her booth

sales. Ka'Bria Foster, a 7year-old Daisy Girl Scout, also sold more than 1,000 boxes last year. This year, her goal is to sell 2,000 or

more. Ka'Bria plans to use her cookie proceeds to fund a trip with her fellow Girl Scouts. Through the program, girls are able to make decisions about how to use the money they earn. They learn to budget, manage inventory and market a product.

Ka'Bria plans to combine the proceeds she earns from the cookie sale with money earned by the other girls in her troop so that they can enjoy activities or go on a trip togeth-

One other important part of the program is that Girl Scouts gain confidence from learning to interact with customers.

"My favorite part of the cookie program is getting to meet a lot of really nice people," Ka'Bria said. "The secret to my success in selling cookies is the help of friends and family."

The 2013 theme from the Girl Scout Cookie Program reminds girls they have the power to do anything with the lifetime of skills and confidence they gain through Girl Scout-

ing.
From train stations to grocery stores, Scouts will be setting up cookie booths for their annual Cookie Program, the largest girl-led business in the nation. Girls will be selling cookies through late February for \$4 a box.

The program teaches girls five essential business skills: goal setting, decision making, money management, people skills and business ethics. The purchase of a box of Thin Mints, Shortbreads, Caramel deLites, Peanut Butter Patties, Lemonades, Thanks-A-Lots, Peanut Butter Sandwiches and the new Mango Crèmes with Nutrafusion will help girls reach their goals, which include travel opportunities, camping and more.

For the first time since 1999, all boxes of Girl Scout Cookies have a new look and a new purpose: to elevate the significance of the Girl Scout Cookie Program. The iconic Girl Scout Cookie package showcases the five entrepreneurship skills and encourages alumnae to share their success sto-

"From our Cookie College program, where girls set their goals and make their plans to cookie booths where they gain

confidence, our Cookie Program is a great opportunity for girls to learn basic life skills, as well as what it truly means to run a business," said Mary E. Connell, CEO of Girl Scouts of Central and Southern New Jersey. "Each year, from our youngest Daisies to our experienced Ambassadors, our girls challenge themselves in news ways and develop skills that will help them for the rest of their lives."

Girl Scouts also will sponsor the Taste of Home Program, a service project for sending Girl Scout Cookies to U.S. soldiers serving overseas, and Share in the Community Program, where a girl identifies an organization such as a senior center, veterans hospital or food bank that she would like to be the recipient of donated Girl Scout

Cookies. To find cookies, visit the cookie booth locator at www.girlscout

cookies.org or download the free mobile app available for Android and Apple devices.

For more information on how to join, volunteer, reconnect or donate to Girl Scouts of Central & Southern NJ, call 800-582or www.gscsnj.org. You also can connect with GSCSNJ on Twitter @GSCSNJ or

Facebook.com/GSCSNJ.

Grand opening

The grand opening celebration of Kirkland's in Watchung is scheduled for 10 a.m. to 9 p.m. Saturday and noon to 6 p.m. Sunday. The free design consultations will take place from 1 p.m. to 4 p.m. both days. For more information, call 908-668-4409 or visit www.kirklands.com.



You are invited to attend a **Public Information Meeting for the Former Raritan Arsenal Site**

The U.S. Army Corps of Engineers, New York District, will discuss ongoing cleanup activities, progress toward site closure, recent ordnance-removal actions and the status of the indoorair investigation at the former Raritan Arsenal site, located within boundaries of the Raritan Center.

Please join us:

Thursday, January 24, 2013 at 7:00-9:00 pm **Edison Municipal Complex • Council Chambers** 100 Municipal Boulevard • Edison, New Jersey

Agenda

7:00 pm: Presentation 8:00 pm: Questions and Discussion

For more information, you may contact:

Sandra L. Piettro, Project Manager 917-790-8487 • Sandra.L.Piettro@usace.army.mil U.S. Army Corps of Engineers - New York District Jacob K. Javits Federal Building 26 Federal Plaza, Room 1811 New York, NY 10278-0090

PRO-VITA

Continued from Page B1

funds to help equip pregnancy-help centers within the Diocese of Metuchen with new ultrasound machines. To date, they have coordinated efforts to purchase four new machines, including one for a mobile pregnancy-help center.

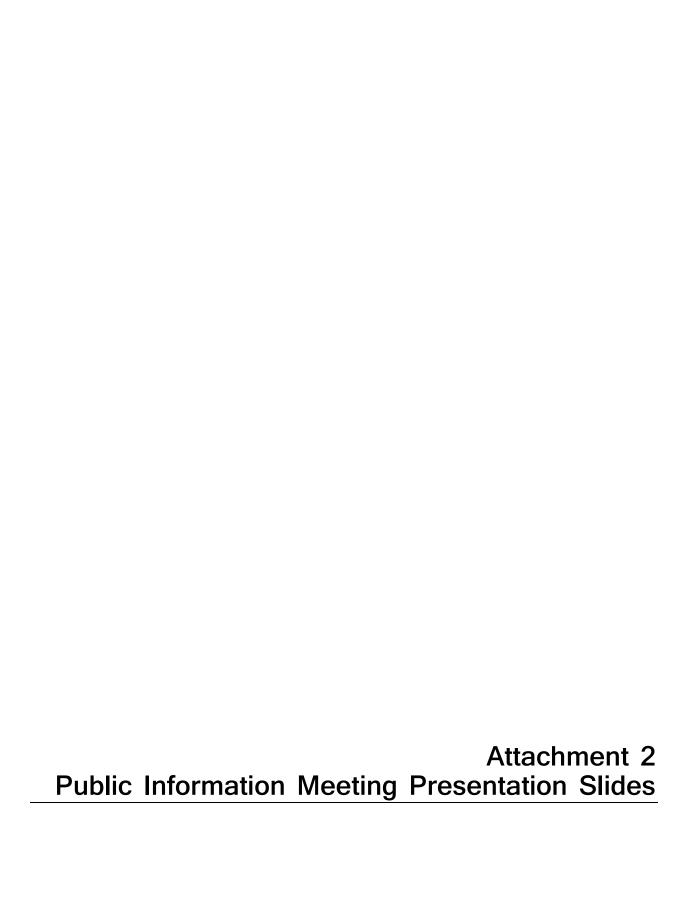
The committee's ef-

forts in researching the needs of the local pregnancy-help centers and collaborating with the diocesan Respect Life Office and the local parishes have provided a model for the Knights of Columbus Ultrasound Initiative on the national level.

Their efforts have been vital in helping women in crisis pregnancies to

choose life. Established in 1988 as a prayer service celebrated in conjunction with the anniversary of the Roe v. Wade decision, the Respect Life Mass today celebrates life from the womb to the tomb.

All are invited to the Pro-Vita Mass and reception, which will follow in the Cathedral Community Room. For more information, call 732-562-1990, 1629, ext. orvisit www.diometuchen.org.



Public Information Meeting Former Raritan Arsenal Edison, New Jersey

Sandra L. Piettro
Project Manager
USACE, New York District
24 January 2013





Agenda

- Site History
- Operable (Decision) units
 - ▶ Site-wide Groundwater / Indoor Air
 - Groundwater Long Term Monitoring
 - Groundwater / Indoor Air / Vapor Intrusion Feasibility Study
 - Indoor Air / Vapor Mitigation Systems
 - Middlesex County College property
 - ► Thomas Edison Park / Area 9, 10 & 19 property
 - Commercial / Industrial Area
 - Area 5
 - ▶ USEPA / GSA property
 - Undeveloped Wetlands Area
- Site-wide HTW & MMRP Remedial Investigation / Feasibility Study
 - HTW = Hazardous, Toxic Waste
 - MMRP = Military Munitions Response Program
- Fiscal Year 2013* Milestones
- Fiscal Year 2014* Future Planned Activities
- Funding
- MMRP Safety Education

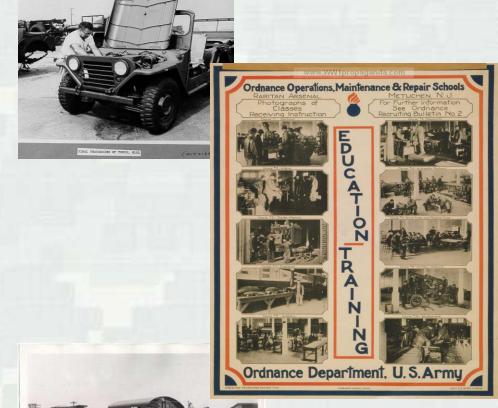


^{*} FY 2013: 10/1/20112-9/30/2013

^{*} FY 2014: 10/1/2013 - 9/30/2014

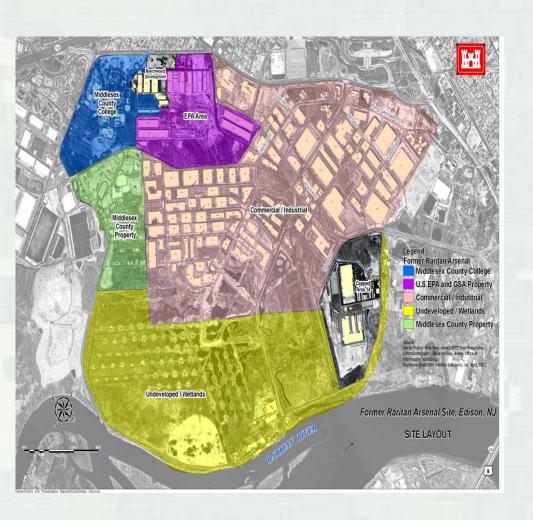
Site History

- Mission of Arsenal from 1917-1963
 - shipping and storage of ordnance material;
 - general supplies to other arsenals and military facilities;
 - stored, modified, and shipped military vehicles.
- Decontamination process completed in October 1963.
- Arsenal closed 1964
- Upon disposition, Arsenal consisted of 3,234 acres, approximately 440 buildings, 2.8 million square feet.
- Site-wide network of over 62 miles of roads and railways.
- Government officials and citizens proposed an orderly conversion of property from military to civilian use.
- Group recommended two-thirds of Arsenal be targeted for future industrial use.
- In 1964, GSA sold 2,360 acres to private landowners.
- EPA/GSA, Middlesex County College and Thomas Edison Park retained 840 acres of former Arsenal property.





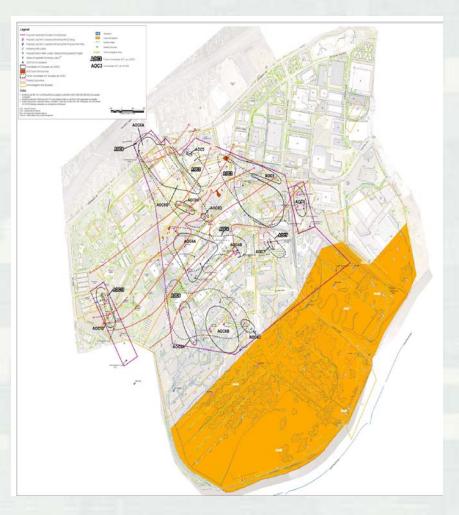
Operable (Decision) Units



- Work at former Raritan Arsenal is organized into the following six (6) operable (decision) units:
 - Site—wide Groundwater / Indoor Air / Vapor Intrusion
 - Middlesex County College property
 - ▶ Thomas Edison Park property
 - Commercial / Industrial Area
 - ▶ USEPA / GSA property
 - Undeveloped Wetlands Area
 - subject to change as remedial investigations progresses



Groundwater



- Groundwater / Indoor Air / Vapor Intrusion – Feasibility Study
 - ► Evaluate the need for, and possible alternatives to address final remedial actions for the groundwater contamination at Areas of Concerns (AOCs):
 - AOCs 2, 4A, 4B, 6A, 6B,
 6C, 8A/B, 8C, 8D, 9 & 10
 - ▶ Status:
 - NJDEP review summer 2013



Groundwater Long Term Monitoring

Status

- Monitor Groundwater Areas of Concerns (AOCs) for natural attenuation in the 6 AOCs (2, 4, 6, 8, 9 & 10);
 - Sampling schedule for monitored natural attenuation:

 - Future sampling every five (5) years for thirty years (until 2042)
 - Monitored natural attenuation is a technique used to monitor or test the progress of concentration of contaminants in groundwater are decreasing without human involvement.
- ▶ Based on previous sampling results showing decreasing concentration levels: 4 GW AOCs dropped from consideration (AOCs 1, 3, 5 & 7) – no further action is required

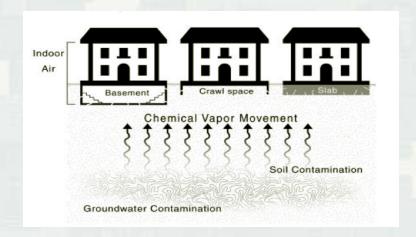


Indoor Air / Vapor Intrusion

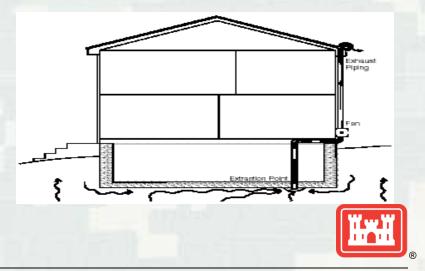
- What is Vapor Intrusion: volatile chemicals can evaporate from groundwater and soil and may build up in the indoor air of nearby buildings
- What is vapor mitigation system: its designed to reduce the air pressure beneath the building and keep vapors that may collect beneath the building from entering into building.

Status:

- Monitoring 8 industrial buildings for volatile organic compounds (VOCs) in indoor air and sub-slab soil gas
- ► These results are documented in the Indoor Air Quality Reports; currently up to report #8
- Report #8 is being generated for NJDEP submission



Subsurface Depressurization System



Middlesex County College property



 Generate a Remedial Investigation (RI) / Feasibility Study (FS) / Proposed Plan (PP) / Decision Document (DD)

o Status:

- Remedial Investigation report has been prepared
- Submitted to NJDEP for reviewDecember 2012
- Proposed Plan / Decision
 Document to be generated after
 Remedial investigation is final
- During the Proposed Plan,
 USACE will present the cleanup strategy for public review & comment

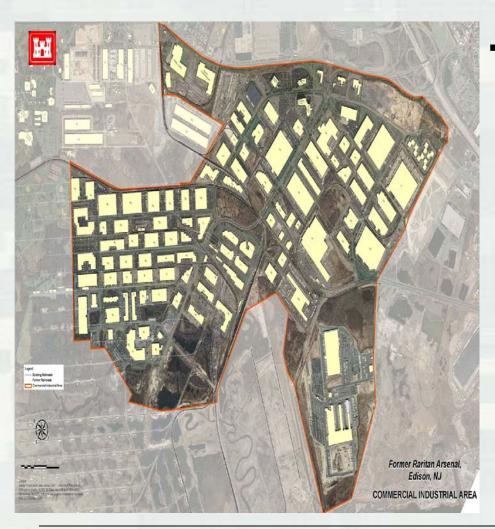
Thomas Edison Park / Area 9, 10, 19 property



- This property is being addressed under the Site-Wide HTW & MMRP Remedial Investigation / Feasibility Study
 - Generate a Remedial Investigation (RI) / Feasibility Study (FS) / Proposed Plan (PP) / Decision Document (DD)
 - Please refer to slide name: Site-Wide HTW & MMRP Remedial Investigation / Feasibility Study



Commercial / Industrial Area



Generate a Remedial Investigation (RI) / Proposed Plan (PP) / Decision Document (DD)

- Status:
 - Awaiting Draft Final RI report early spring 2013;
 - USACE will review late spring 2013:
 - NJDEP will review summer 2013;
 - Proposed Plan / Decision Document to be generated after Remedial Investigation / Feasibility Study is final;
 - During the Proposed Plan, USACE will present the cleanup strategy for public review and comment

Area 5 – Remedial Investigation / Feasibility Study (desktop)



Status

- Awaiting Work Plan addendum early spring 2013;
- ▶ NJDEP review spring 2013;
- ► Field investigation work to commence –fall 2013;
- Remedial Investigation / Feasibility Study report will be generated after Work Plan is approved by NJDEP;
- Proposed Plan / Decision
 Document to be generated after
 Remedial Investigation /
 Feasibility Study is final;
- During the Proposed Plan, USACE will present the cleanup strategy for public review & comment

USEPA / GSA property

(Area 1 and 18A thru G)



Status

- Draft Remedial Investigation report has been generated;
- USACE review of Draft Final spring 2013;
- ► NJDEP review summer 2013; and
- ► Additional data gaps
 associated with Area 18D
 (addressed under the SiteWide HTW & MMRP Remedial
 Investigation / Feasibility
 Study) which may be
 addressed as a separate
 operable unit

Undeveloped Wetlands Area

(Area 6, 6A, 6B, 11, 12, 13, 16)



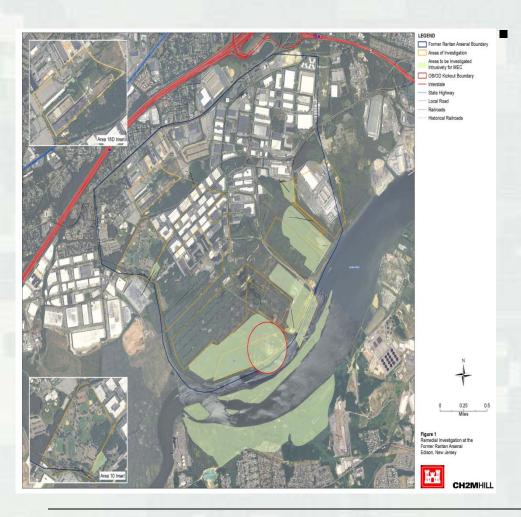
Status:

- A Draft Remedial Investigation / Feasibility Study Work Plan has been generated;
- Work plan documents & explains our field work investigations
- ▶ USACE review ongoing;
- NJDEP review late spring / summer 2013;
- Field investigation work to commence fall 2013;
- Proposed Plan / Decision Document to be generated after Remedial Investigation / Feasibility Study is approved by NJDEP and final; and
- During the Proposed Plan, USACE will present the cleanup strategy for public review & comment



Site-wide HTW & MMRP Remedial Investigation / Feasibility Study

(12 Investigation areas: 1, 6, 6A, 6B, 10, 10C, 11, 12, 13 (Pier), 16, 18D and 9/19)



Status:

- A Draft Final Remedial Investigation / Feasibility Study Work Plan is being generated;
- ► NJDEP review spring/summer 2013;
- ► All Hands Safety meeting prior to field work; to meet with Township of Edison (Dept of Health, Office of Emergency Management, NJFFS, Police Dept and Fire Dept);
- ► Fieldwork to commence fall 2013;
- Proposed Plan / Decision Document to be generated after Remedial Investigation / Feasibility Study is approved by NJDEP and final; and
- During the Proposed Plan, USACE will present the cleanup strategy for public review & comment

FY 2013 Milestones

- Groundwater Compliance Monitoring Progress Report
- Feasibility Study Groundwater / Indoor Air (Vapor Intrusion)
- Indoor Air Quality report #7
- Indoor Air Quality report #8
- Management Action Plan
- Work Plan: Area 5 Remedial Investigation / Feasibility Study
- Remedial Investigation & Remedial Actions Summary Report Middlesex County College
- Proposed Plan Middlesex County College for public comments
- Remedial Investigation & Remedial Actions Summary Report Thomas Edison Park
- Remedial Investigation & Remedial Actions Summary Report Commercial / Industrial Area
- Remedial Investigation & Remedial Actions Summary Report USEPA / GSA property
- Work Plan: Site-wide Remedial Investigation / Feasibility Study
- Commence fieldwork activities at various areas
- Community Relations Plan
- Stakeholders Working Group Meetings April and October 2013
- Public Information Meetings January and November 2013



FY 2014 Future Planned Activities

- Proposed Plan Groundwater / Indoor Air (Vapor Intrusion) for public comments
- Annual Indoor Air Quality report #9
- Decision Document Middlesex County College
- Proposed Plan Commercial / Industrial Area for public comments
- Decision Document Commercial / Industrial Area
- Remedial Investigation / Feasibility Study report Area 5
- Remedial Investigation / Feasibility Study Site-wide Munitions and/or Hazardous, Toxic Waste
- Stakeholders Working Group Meetings March and October 2014
- Public Information Meetings April and November 2014



Funding

Raritan funding:

► Funding spent: \$86.5 M

► Allocated, 2012: \$1.9 M

►Planned, 2013: \$1.7 M

► Cost to Complete: \$31.8 M*

* subject to change as remedial investigations progresses



The CERCLA Process

Removal Actions

(this can occur at any phase)

Time-critical removal

· Action memorandum

Non-time critical removal

- Engineering evaluation/ cost analysis
- Public comment
- Action memorandum

Preliminary Assessment

Historical record search

Site Inspection

Is contamination present?

Remedial Investigation

What are the contaminants? Where are they located?

Proposed Plan and Public Comment Period

Present preferred cleanup strategy for public review and comment

Feasibility Study

Develop and evaluate cleanup options

Record of Decision

Document selected cleanup alternative after consideration of public comments

Remedial Design

Engineering plan for the cleanup

Remedial Action

Implement the cleanup



MMRP (Ordnance) Safety Education

- The USACE remains committed to protecting public safety by reducing the risk presented by the presence of military munitions to the maximum extent possible.
- "3Rs" of explosives safety
 - ► RECOGNIZE when you may have encountered a munition
 - ► RETREAT do not touch, move or disturb it, but leave the area
 - ► REPORT call 911 and advise the police what you saw and where you saw it



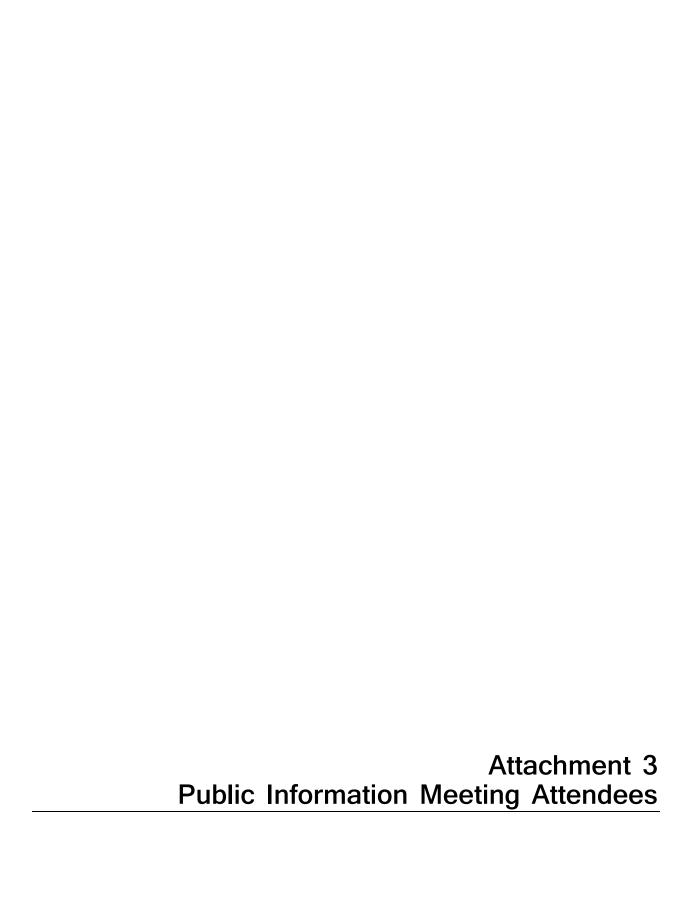
Sandra L. Piettro, Project Manager

New York District
U.S. Army Corps of Engineers
Jacob K. Javits Federal Building
26 Federal Plaza, Room 1811
New York, NY 10278-0090
(917) 790-8487

USACE's former Raritan Arsenal webpage at:

http://www.nan.usace.army.mil/Missions/Environmental/EnvironmentalRemedia tion/FormerlyUsedDefenseSites/FormerRaritanArsenal.aspx







Record of Attendees

New York District
Programs & Project
Management Division
Environmental
CENAN-PP-E

MEETING Public Information Meeting for the Former Raritan Arsenal – Formerly Used Defense Site (FUDS) located at Edison, Middlesex County, New Jersey

LOCATION

100 Municipal Blvd

Edison, NJ

DATE

24 January 2013

	NAME	EMAIL	ORGANIZATION	PHONE
1-	Sandra L. Piettro	Sandra.L.Piettro@usace.army.mil	USACE, NY District	(917) 790-8487
2-	Susana Struve		CH2M Hill	45.0
3-	Dorothy Richards		USACE, Huntsville	
4-	Brett Frazier		USACE, Huntsville	arrasinas a salveras arrae - arrae - as atas meter
5-	Mark Callaghan		CH2M Hill	
6-	Lee DePersia		Avatar Environmental	
7-	Paul Bovitz		Weston Solutions	
8-	James Kelly		USACE, New England	
9-	Roger Fitzpatrick		USACE, Huntsville	
10-	Chris Mazaus	ROS, RDO TUSP. OF G	EDISON 7	32-248-7356
11-0	SREGURT J. GOEPFERT	Gregory. J. Goepfert@usace.avry.m	USACE NY DISTRI	CT 9177908235
12-	tal Grun		EDHHS retired	
13-	ERNEST DOCS	Sara 102@ opton line net EMAN-27- NJBYAHOO, COM	Metucken Resident	- 732-548-8660
14-	Bill Schultz Rari	tanoriverREEPEr@VErizononet	Raritan Riverkeeper	732-442-6313
15-	DONALD DROST	DDrosta Middlesexcc, edy	Mcc	732-906-2568



Record of Attendees

New York District Programs & Project Management Division Environmental

CENAN-PP-E

MEETING Public Information Meeting for the Former Raritan Arsenal – Formerly Used Defense Site (FUDS) located at Edison, Middlesex County, New Jersey

LOCATION
100 Municipa

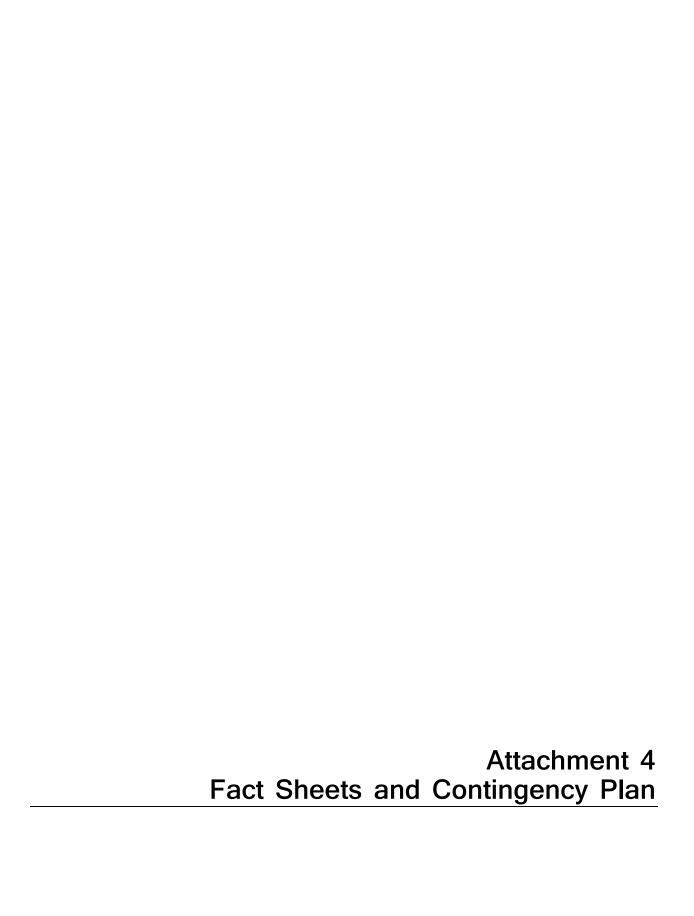
24 January 2013

DATE

100 Municipal Blvd Edison, NJ

NAME EMAIL ORGANIZATION PHONE

31-	Ajay Kolthurra	ackathuria@ Dowisberger.com	Lowis Berger Gooup	973-407-1376.
32-	Matthew Dellana		. EdisonbletlandsA	scop Don
33-	Kwora CHO		USEPA	
34-	WAIT Stuckel	wstochel@earth	ink.n-et	7379060529
35-	Tom Ostrand	tostrand agmail.com	M	7
36-	Cally zame	uman	HOMEVUNEN	732-754-068
37-	PETER SAPSA		HOME CHNER	732-248 0166
38-	Dana Patterson	dana@edisonwettar	ids.org EWA	732-321-1300
39-	DAVID NELSON	Inekon@ch Zu.com	CH2M HILL	678.50.4260
40-<	Jay Elliot	jellioto edisoni, org	Two of Edison	732. 215- 7476
41-	Makninich	Dyna-Krumich Cyleston solutions	can Western	732 417 - 1828
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Former Raritan Arsenal Fact Sheet

Edison, New Jersey January 2013

The USACE's Sponsors Public Information Meeting to Discuss Project

The U.S. Army Corps of Engineers (USACE) invites you to attend an upcoming Public Meeting to learn about a number of cleanup activities the former Raritan Arsenal, including recent ordnance removal actions, indoor air investigations currently underway and the progress being made toward site closure. Additional information about these site activities is summarized on this fact sheet. Please join us:

Thursday, January 24, 2013 • 7 – 9 p.m. Edison Municipal Complex • Edison Room (3rd floor)

100 Municipal Boulevard • Edison, New Jersey

Meeting Agenda

7:00 p.m. – USACE Presentation 8:00 p.m. – Questions and Discussion

For more information, please contact Sandra Piettro, USACE Project Manager, at 917-790-8487.

Ongoing Indoor Air Monitoring

The USACE evaluated indoor air quality in 48 buildings ranging in size from 1,225 square feet up to 243,000 square feet for levels of volatile organic compounds. Many of the buildings house multiple tenants, such as light industrial, warehouse, mixed-use office space and daycare centers. Evaluations of all buildings are summarized in indoor air reports, Indoor Air Quality Reports #1 thru 6. The latest report (#7) on indoor air evaluations will be issued in late 2011.

Current Status:

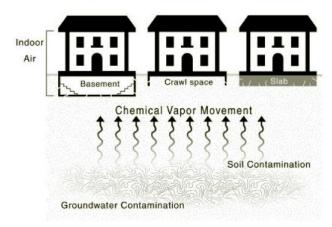
- 48 building evaluated
 - 39 buildings: Indoor air quality safe, no evidence of potential vapor intrusion
 - 8 buildings: Current monitoring efforts include sub-slab and indoor air
 - o Indoor air quality safe in all 8 buildings
 - o Potential vapor intrusion:
 - 2 buildings: Vapor intrusion not present; semiannual monitoring to confirm
 - 6 buildings: Mitigation system installed and monitored

The addresses of the 8 buildings currently undergoing USACE ongoing indoor air monitoring efforts include:

- 165 Fieldcrest Avenue
- 160 Fieldcrest Avenue
- Campus Plaza 4
- 102-168 Fernwood Avenue
- A series of EPA owned buildings (numbers 10, 200, 205 and 209).

Most of these buildings are equipped with indoor air mitigation systems, and the USACE periodically monitors the air quality of these properties in cooperation with NJDEP.

Vapor Intrusion



Vapor intrusion can occur when vapors are present in the zone directly next to or under the foundation of the building, resulting in the seepage of those vapors into living spaces.

Vapor intrusion occurs when gases from contaminated soil or ground water seep into cracks and holes in foundations or slabs of buildings and accumulate in basements, crawl spaces or living areas, as shown in the diagram above. A subsurface depressurization system, similar to a system to mitigate radon gas is an effective method to prevent vapor intrusion in affected buildings. A sub-slab depressurization system consists of PVC piping installed through the slab floor and a fan connected to the piping. When the system is on, the fan acts a vacuum beneath the slab, pulling the vapors from the soil beneath the building into the pipe, where they are safely dissipated in outside air.

Groundwater

A groundwater remedial action work plan (GWRAWP) was completed in July 2008 and identifies a number of locations, identified as Areas of Concern (AOCs), requiring evaluation and monitoring. This work plan and report addressed known DOD-related groundwater concerns (except Area of Concern No. 2 and 8A/B) and recommended Monitored Natural Attenuation (MNA) as the preferred remedial method. MNA is the sum of natural processes that leads to the monitored reduction of contaminant concentrations in groundwater over time. The primary objective of MNA is to demonstrate that natural processes will reduce those concentrations in groundwater to levels below regulatory standards before a point of compliance, such as an off-site receptor, is reached.

This report concluded MNA is a feasible remedial alternative for AOCs 4A, 4B, 6A, 6B, 6C, 8C, 8D, 9, and 10, with a recommendation for long-term monitoring for a Classification Exception Area (CEA) that encompassed all AOCs within the former Raritan Arsenal. The report recommended No Further Action for AOCs 3, 7, and 4B, and received NJDEP approval for AOCs 3 and 7, with a request to sample one well for AOC 4B. AOCs 2 and 8A/B were excluded from the GWRAWP due to of ongoing source investigations, groundwater treatability work and indoor air monitoring. These areas are addressed under a separate GWRAWP.

USACE installed and completed long term monitoring wells and commenced the groundwater sampling effort as outlined in the USACE approved Groundwater RAWP, dated July 2008. The primary groundwater contaminants of concern at each AOC (except AOC 9) are chlorinated volatile organic compounds, primarily TCE (trichloroethylene) and PCE (tetrachloroethylene) and their breakdown products. Sampling schedule for monitored natural attenuation:

- First round of GW sampling Summer 2010 completed
- Second round of GW sampling Summer 2012 completed
- Future GW sampling every five (5) years for thirty years (until 2042)

The results are documented into a Groundwater Compliance Monitoring Progress Report for Groundwater AOC 2, the USACE completed post injection monitoring of the pilot tests in summer 2010. Results to date indicate reduction in AOC 2 contaminants. The results of the pilot tests treatability

study has been summarized in a report and was issued to NJDEP for review in November 2010.

USACE implemented a site-wide well abandonment project consisting of two phases. Phase One: abandoning wells no longer needed at the site; proposing wells not located within or near any GW AOCs. Phase Two: abandoning wells no longer needed at the site; proposing wells are part of the USACE's monitoring program under the approved GWRAWP.

USACE is generating a Groundwater / Vapor Intrusion (GW/VI) Feasibility Study (FS) to evaluate the need for, and possible alternatives to address, final remedies for the groundwater contamination at Areas of Concerns 2, 4A, 4B, 6A, 6B, 6C, 8A/B, 8C, 8D, 9, and 10.

Munitions Clearance, Area 12

Through the use of state-of-the-art technologies, the USACE has made advances to clear buried munitions from Area 12 at the former Raritan Arsenal. A new technical approach using digital geophysical mapping (DGM) has allowed the USACE to detect buried items and distinguish if they are potential munitions. Based on the results of this survey, munitions locations were then mapped using high-resolution global positioning system (GPS) data.

This approach has enabled the USACE to make significant improvements in the detection and evaluation of subsurface anomalies before the digging takes place. Furthermore, this has also allowed for the identification of an 86-acre area where anomalies were spaced at a great enough distance to give the removal contractor exact GPS coordinates for each location they were to dig, also resulting in a shorter time period to complete the removal action.

The DGM survey also identified areas with concentrations of potential ordnance anomalies in Area 12. Using this information, the USACE completed an ordnance removal clearance of 21.423 acres in Area 12. Our contractor, USA Environmental, Inc. of Oldsmar, FL task order contract was worth \$7,615,856 in 2011. Intrusive work on this effort began in April 2009 and completed in October 2011.

Since the start of the project, USA Environmental, Inc. has located an estimated 130,000 pounds of munitions debris (MD). The MD processing team cut that estimate down to 80,000 pounds, documented, sealed and shipped the material off to an approved facility for shredding and smelting.

Most of the munitions recovered from Area 12 date to the period between World Wars I and II. All items containing explosives were safely destroyed and all metals were recycled.

USACE completed a Vegetation Clearing and Digital Geophysical Mapping utilizing the Air Force Research Laboratory of Tyndall Air Force Base, Panama City, FL to perform vegetation clearance of 10-17 acres at Area 12 and 6-8 acres at Area 5 and perform subsurface ordnance location with autonomous robotics equipment towing and EM-61 array. Work on this effort was completed fall 2012. This effort resulted in creating a way point navigation and path planning to tow an EM-61 sensor package for subsurface ordnance locating in these areas.

The following robotic platforms were used:



All-Purpose Remote Transport System (ARTS) with Brush Cutter attachment



Advanced Mobility Research and Development System (AMRADS) autonomous platform with EM-61 towed array

Munitions Clearance, Multiple Areas

A contract was awarded to CH2M HILL from Atlanta, GA in 2011, the current contract worth is \simeq \$4.6M to perform the following within Areas 1, 5, 6, 6A, 6B, 10, 10 Part I, 11, 12, 13, 16, 18D and 9/19:

- Evaluate all previous historical data (HTRW & MMRP) investigations and removal actions
- Based on the findings/results, provide recommendations
- Generate a site specific Human Health Risk Assessment
- Generate a Remedial Investigation (RI), Feasibility Study (FS), Proposed Plan (PP) and Decision Document (DD) documenting all previous investigations, removal actions and findings
- Any munitions discovered during investigation contractor will perform removal action

A contract was awarded to Hydrogeologic, Inc (HGL) from Reston, VA in 2011, the current contract worth is \approx \$250k to document all previous investigations and findings into a desktop Remedial Investigation for Area 5 in order to achieve state regulatory concurrence on a project close-out.

The USACE remains committed to protecting public safety by reducing the risk presented by the presence of military munitions to the maximum extent possible. Future ordnance removal operations will be conducted as funding is available. While these operations reduce the risk of encountering munitions items in the future, they cannot eliminate that risk entirely. For that reason, USACE recommends that ordnance construction safety support services are included in all development plans where digging will take place in area that areas previously contained ordnance.

Soil Investigation at Area 18E

A remedial investigation work plan and site-specific sampling and analysis plan for Area 18E and adjacent EPA buildings was issued to NJDEP for review in September 2008. NJDEP completed its review in May 2009 and agreed with the elements of the work plan. The work plan called for delineating VOCs and metals in soil, both vertically and horizontally. The determined **VOCs** investigation whether and polychlorinated biphenyls (PCBs) have impacted specific soil AOCs which had not been investigated previously. The investigation results showed contaminated soil identified within Area 18E has impacted groundwater within Groundwater AOC 8. The initial phase of the investigation consisted of Geoprobe soil sampling activities, Geoprobe shallow groundwater sampling activities, soil borings and the installation of monitoring wells.



Site map of Area 18E and adjacent EPA buildings

The results from this initial sampling show the delineation of VOCs and metals in soil, both vertically and horizontally, at former soil sample locations, resulting in the need for additional testing. The results of the investigation have been generated into a remedial investigation report. Additional investigation was performed and the results from this additional sampling were documented in a Supplemental Remedial Investigation Report dated September 2011 and was issued to NJDEP for review.

A contract was awarded to H&S Environmental, Inc. of Westborough, MA to address shallow contaminated subsurface soils over the nine acre Area 18E. Work plans were approved by NJDEP in September 2011 and soil removal completed in fall 2011. An estimated 1,850 cubic yards (approximately 90 truck loads) was excavated and disposed of off-site.



Site preparation and excavation activities. (File Photo)

Site-wide Remedial Investigation / Feasibility Study / Proposed Plan / Decision Document

A contract was awarded to Avatar Environmental from West Chester, PA in 2011, the current contract worth is \simeq \$345k to document all previous investigations and findings into a Remedial Investigation, Feasibility Study, Proposed Plan and Decision Document in order to determine if any further investigation or remediation work is required within the following operable units:

- Middlesex County College property
- USEPA / GSA property
- Commercial / Industrial Area

Fiscal Year 2013 Planned Milestones

The following list presents a summary of recently completed site activity from October 1, 2012 to September 30, 2013:

- Groundwater Compliance Monitoring Progress Report
- Feasibility Study Groundwater / Indoor Air (Vapor Intrusion)
- Indoor Air Quality report #7
- Indoor Air Quality report #8
- Management Action Plan
- Work Plan: Area 5 Remedial Investigation / Feasibility Study
- Remedial Investigation & Remedial Actions
 Summary Report Middlesex County College
- Proposed Plan Middlesex County College for public comment
- Remedial Investigation & Remedial Actions
 Summary Report Thomas Edison Park
- Remedial Investigation & Remedial Actions
 Summary Report Commercial / Industrial Area
- Remedial Investigation & Remedial Actions
 Summary Report USEPA / GSA property
- Work Plan: Site-wide Remedial Investigation / Feasibility Study
- Commence fieldwork activities at various areas
- Community Relations Plan
- Stakeholders Working Group Meetings April and October 2013
- Public Information Meetings January and November 2013

Fiscal Year 2014 Planned Future Activities

The following list presents the future plans (October 1, 2013 to September 30, 2014) for the site.

- Proposed Plan Groundwater / Indoor Air (Vapor Intrusion) for public comments
- Annual Indoor Air Quality report #9
- Decision Document Middlesex County College
- Proposed Plan Commercial / Industrial Area for public comments
- Decision Document Commercial / Industrial Area
- Remedial Investigation / Feasibility Study report – Area 5
- Remedial Investigation / Feasibility Study Site-wide – Munitions and/or Hazardous, Toxic Waste
- Stakeholders Working Group Meetings March and October 2014
- Public Information Meetings April and November 2014

About the Formerly Used Defense Sites Program

Congress established the Formerly Used Defense Sites (FUDS) Program in 1986 to clean up properties that were formerly owned, leased, possessed or used by the Army, Navy, Air Force or other defense agencies. The U.S. Army Corps of Engineers manages the FUDS Program. The New York District is responsible for various FUDS locations, including the former Raritan Arsenal site, which is comprised of approximately 3,200 acres located along the Raritan River in the Townships of Edison and Woodbridge, Middlesex County, New Jersey, approximately 20 miles south of Manhattan.

Site History: Operations Began in 1917

The former Raritan Arsenal was used extensively for U.S. Army operations from 1917 to 1963. Operations included receipt, storage, and maintenance of ammunition shipped from other ordnance facilities or returned from overseas; renovation of ammunition designated for long-term storage; the salvage of outmoded or seriously deteriorated ammunition; ordnance research and development; and shipment and receipt of weapons. During operations, waste materials, including ordnance, were routinely buried on site as this was the standard method of disposal at that time. The arsenal was closed in 1963.

Following closure, areas of the site were identified for further study with respect to possible ordnance and explosives contamination. This preliminary remediation work resulted in many of the areas being surface cleared or partially decontaminated. More extensive investigations followed, including work under the FUDS program.



Site map of the former Raritan Arsenal

For more information, please contact the following:

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http://www.nan.usace.army.mil/Missions/Environmental/EnvironmentalRemediation/FormerlyUsedDefenseSites/FormerRaritanArsenal.aspx



Formerly Used Defense Sites (FUDS) Former Raritan Arsenal

Edison, New Jersey

U.S. ARMY CORPS OF ENGINEERS

January 2013

Munitions Remedial Investigation Planned, Begins Fall 2013

This fact sheet describes an upcoming investigation at the former Raritan Arsenal, called a Remedial Investigation/Feasibility Study (RI/FS). This effort will include a Military Munitions Response Program investigation for approximately 1000 acres of the former Arsenal site (see Figure 1 on page 2).

Although munitions have been removed from many locations in the developed part of the site over the years, this will be the first comprehensive investigation of the large undeveloped wetlands area shown on Figure 1.

Site History

The U.S. Army Corps of Engineers has been investigating the former Raritan Arsenal for over 20 years, under the Defense Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS). The New Jersey Department of Environmental Protection provides regulatory oversight.

The former Raritan Arsenal occupied approximately 3,200 acres and was bounded by Woodbridge Avenue and the Raritan River between Mill Road and Clearview Avenue.

It was used for U.S. Army operations from 1917 to 1963. The main function of the former Arsenal was to store, handle, and ship various classes of ordnance and military supplies.

During Arsenal operations, waste materials including ordnance were routinely buried on site. Some live ordnance was disposed of by open burning/open detonation. These were standard methods of disposal at that time.

Since closure in 1963, the former Arsenal has been redeveloped extensively, mainly for commercial and industrial uses, especially in the northern portion of the facility.

Corps investigations of the former Arsenal have found that ordnance and hazardous and toxic waste contamination were present. As significant health and safety threats were identified, they have been addressed.

Remedial Investigation/Feasibility Study

Using advanced metal detection techniques and sampling soil and groundwater, the Remedial Investigation will identify safety or environmental hazards in 12 areas at the former Arsenal (see Table 1 on page 2). The goals of the investigation are to:

- Define the *nature* (how much, what kind) and *extent* (how large an area) of munitions and explosives of concern, munitions constituents (chemicals associated with munitions and explosives), and other hazardous and toxic waste
- Provide information to assess the risks and hazards to human health, safety, and the environment posed by munitions and other contaminants
- Provide the data needed to define remedial alternatives in the Feasibility Study
- Provide information to support development of a Proposed Remedial Action Plan (for public review and comments) and a Decision Document.

Table 1 lists the areas to be investigated and where they are located in reference to the Site Map (Figure 1).

Most are in the undeveloped wetlands area or in the industrial area. Area 18D is on Middlesex County College (MCC) property, adjacent to the Beechwood community. Area 10 Part I includes part of Middlesex County property (Thomas Edison Park).

The work will be conducted in a way that will protect the safety of everyone in the area.

The remedial investigation is currently in the planning phase. More detailed information will be made available before the investigation begins in fall 2013.

For More Information

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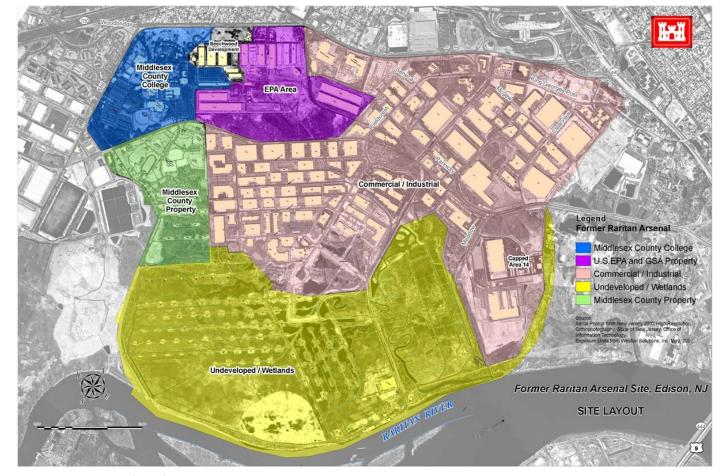


Figure 1 – Site Map of the former Raritan Arsenal showing current land uses

TABLE 1

			Investigation of	
Areas to be Investigated	Located in (see map above)	Acres	Munitions and Explosives of Concern	Munitions Constituents and Hazardous Waste
Area 1: Former Demolition Area	EPA/GSA	0.57		Х
Areas 6, 6A, 6B: Former Burning Ground and Impoundment Area	Undeveloped Wetlands	130		X
Area 10, 10C: Former Waste Water Treatment and Magazine Area	Middlesex County	140	Area 10 Part I only	X
Area 11: Former Dredged Material and Explosives Area	Undeveloped Wetlands	11		X
Area 12: Former Dredged Material and Explosives Detonation Area	Undeveloped Wetlands	84	X	X
Area 13: Submerged Dock Area (Raritan River shoreline)	Undeveloped Wetlands	8	X	X
Area 16: Former Magazine Area	Undeveloped Wetlands	277		X
Area 18D: Trench of Shell Casings	EPA/GSA, MCC	31	X	X
Area 19: Former Magazine Area / Area 9: Former	Industrial	294		X
Magazine H-65 Explosion Area	Industrial	53		Χ

CONTINGENCIES

