

Air Force Civil Engineer Center

Integrity - Service - Excellence

Former Chanute AFB Restoration Advisory Board Meeting



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**Paul F. Carroll, GS-13
AFCEC/CIBE
May 21, 2015
Version 1**

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Meeting Facilitator



**Mr. Paul Wright
AFCEC Contractor**

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Facilitator Briefing

- **Restoration Advisory Board (RAB) Rules**
- **Introduction of RAB Members, Contractors, and Community Participants**
- **Agenda**
- **Action Items**



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Agenda

- **Action Items**
- **Environmental Cleanup Updates**
- **Air Force Updates**
- **TAPP Contractor Updates**
- **RAB Members Topic of Interest**
- **Public Comments**
- **Meeting Wrap-Up**
- **Adjourn**



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Action Items

#	Action	OPR	Open Date	Status
1.	Approve Transcripts from November 20, 2015 Meeting	RAB	11/20/2014	
2.				
3.				
4.				
5.				

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Environmental Cleanup Update



**Mr. Howard Sparrow
CB&I Federal Services, LLC
Project Manager**

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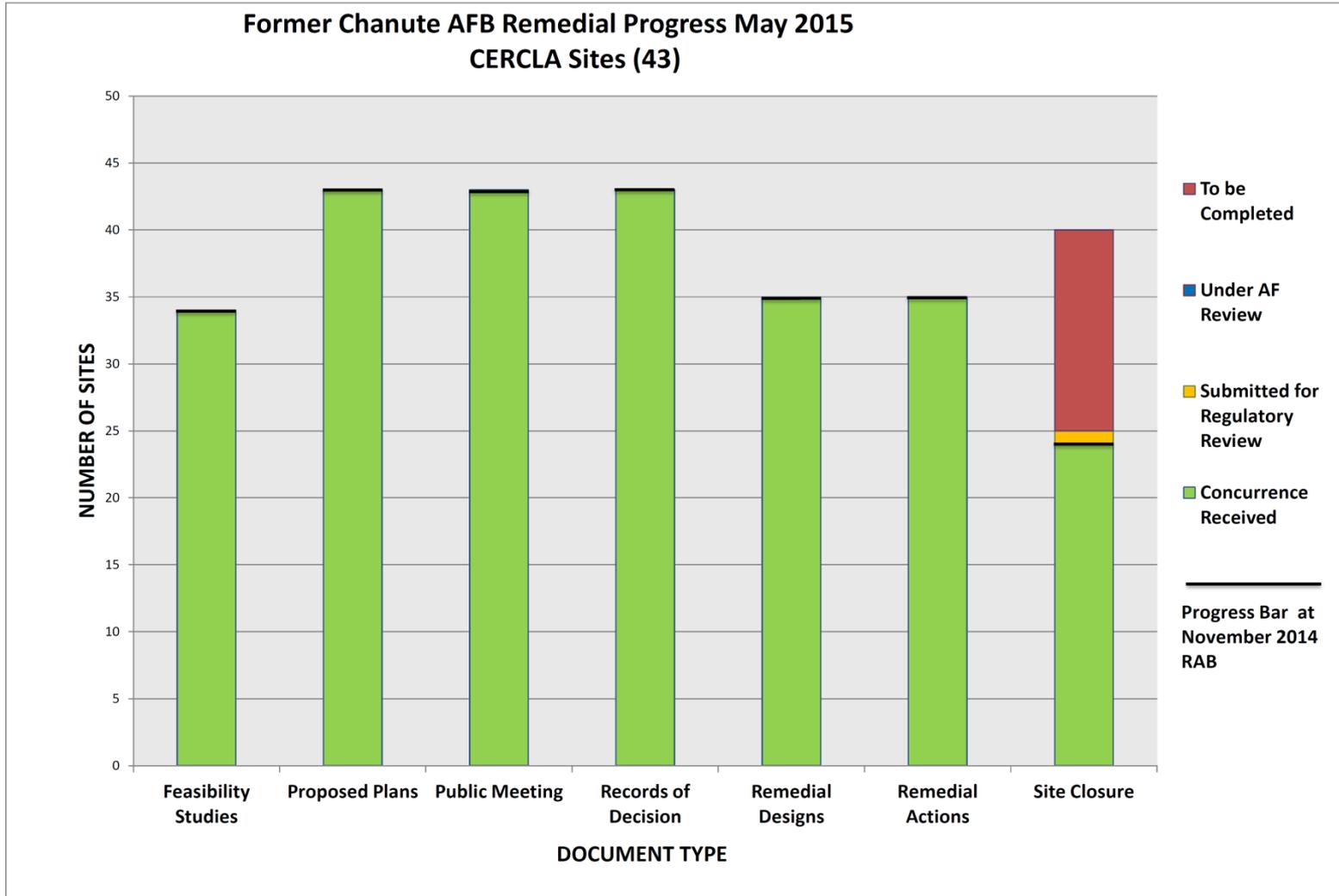
Environmental Restoration Progress

- **Accomplishments since the last RAB (November 21, 2014)**
 - **Site Closure to allow unlimited use and unrestricted exposure (UU/UE) under review by Illinois EPA for site SS052**
 - **Remedial process optimization (RPO)**
 - **Excavation of source material and placement of oxygen-releasing compound (ORC) in the bottom to aid in vinyl chloride degradation (5 sites)**
 - **Additional injections for in-situ bioremediation (9 sites)**
 - **Performance monitoring for groundwater treatment**
 - **Landfill compliance monitoring and inspections**



Decision Document Status

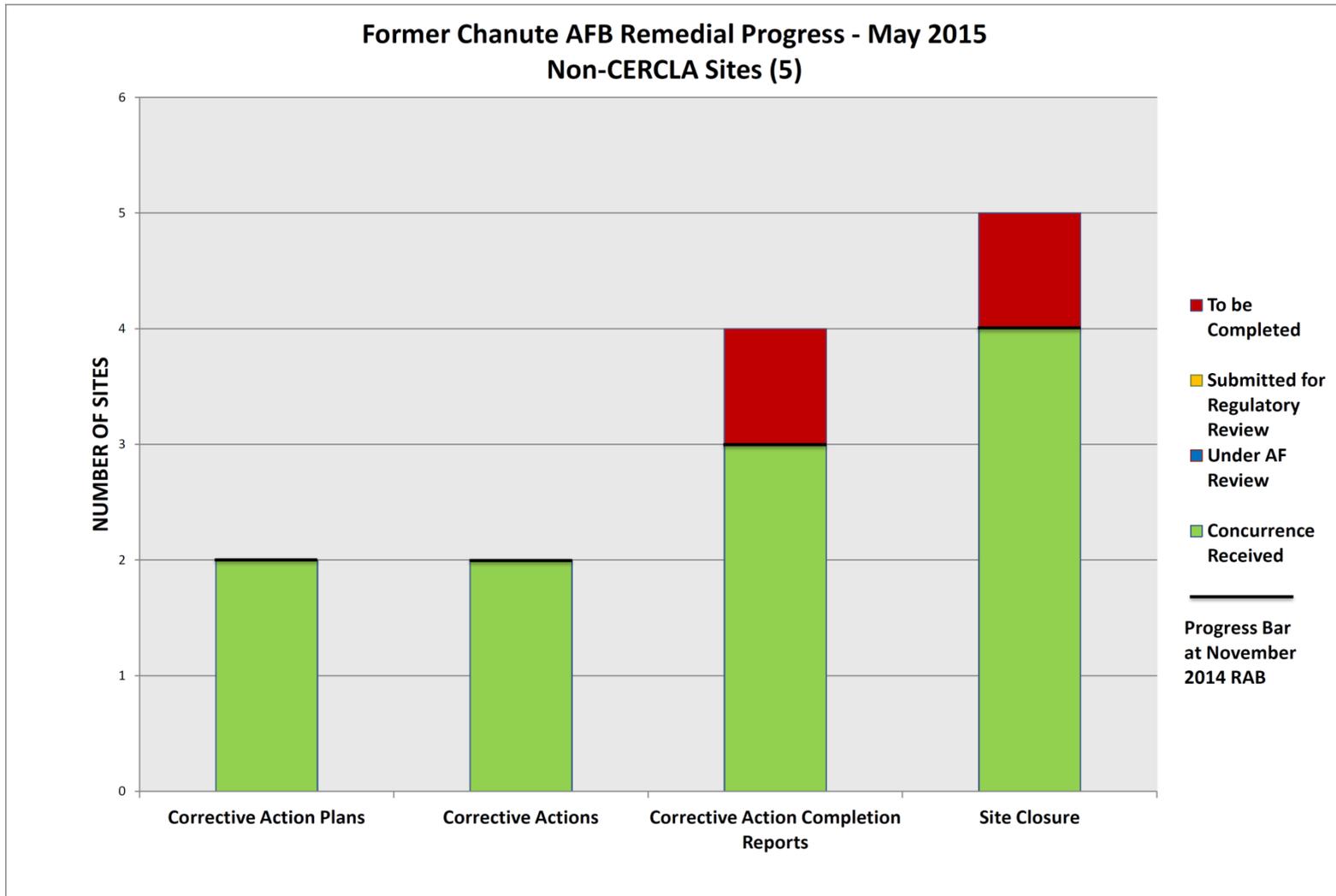
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Decision Document Status

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Remedial Process Optimization

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- Excavation with ORC Addition (5 Sites)
 - Application of ORC to aerobically degrade vinyl chloride





Remedial Process Optimization

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- In-situ hydrogen peroxide (H_2O_2) injections (9 Sites)
 - Injection of H_2O_2 will continue through the Spring/Summer

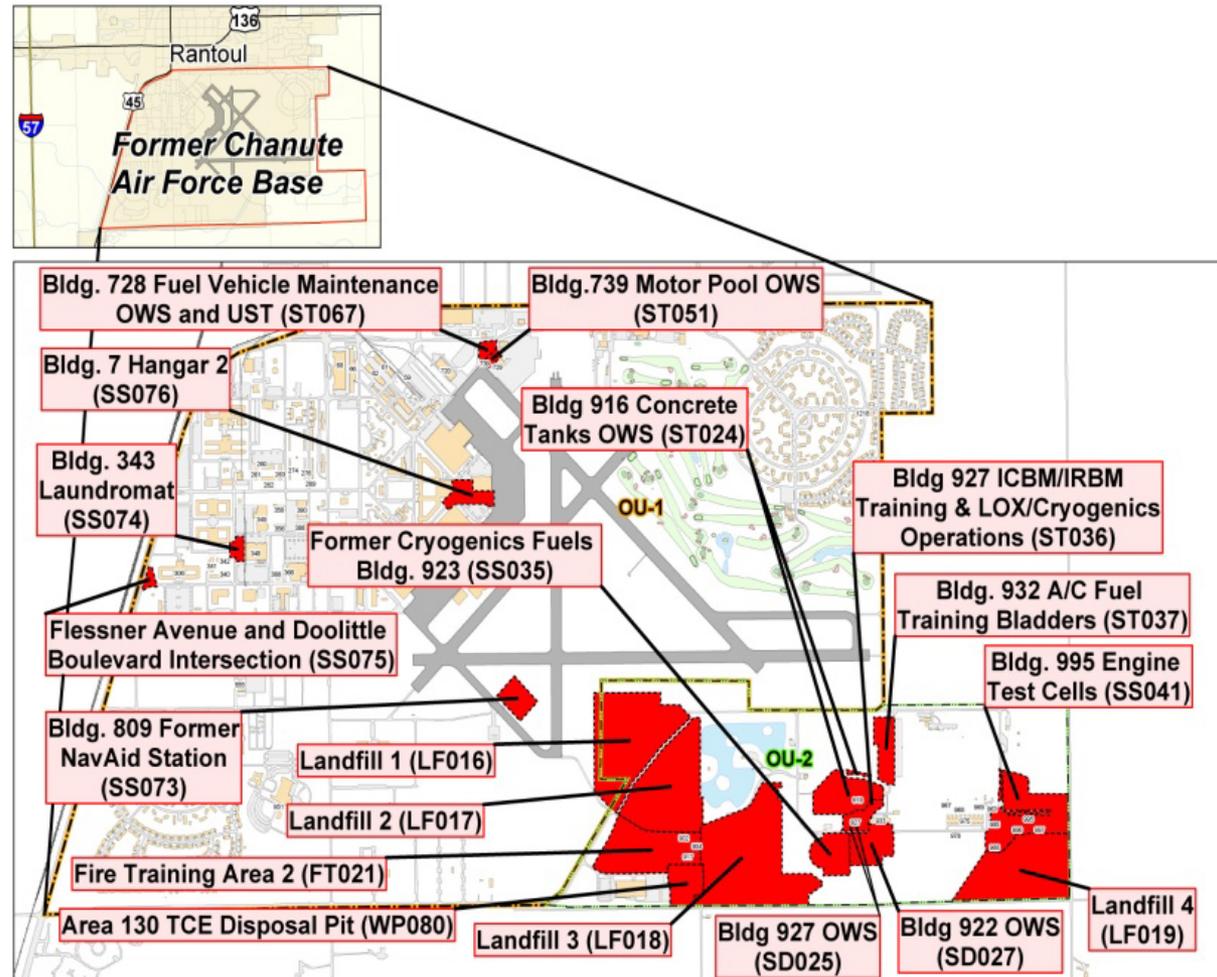




2015 Five-Year Review

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- Conducting a Five-Year Review of the sites where cleanup has left behind wastes that limit site use, or where cleanup has not been completed
 - Four landfills
 - 15 sites where cleanup activities are still in progress





2015 Five-Year Review

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- **What's done during the review**
 - **Study information on the sites (includes the cleanup and the laws that apply)**
 - **Inspection of the sites to make sure they continue to be protective of people and the environment**
- **Review also identifies pending actions, possible future issues, and recommendations for the sites**



2015 Five-Year Review

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- **Questionnaires were sent out requesting regulatory, Village of Rantoul, and community feedback in March 2015**
- **A notice was put in the newspaper in March 2015 identifying the Five-Year Review was in process and how to provide input or how to get more information**
- **A poster and Fact Sheets were placed in the Rantoul Library providing information about the Five-Year Review and how to provide input or how to get more information**
- **The Five-Year Review will be reviewed by the Illinois EPA and signed by the Air Force**



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Operating Properly and Successfully

- **Operating properly and successfully (OPS) required under CERCLA to allow property transfer**
- **OPS definition**
 - **Operating as designed**
 - **Achieving performance goals specified in the applicable Record of Decision**
 - **Protective of human health and the environment**
- **OPS determination required for 13 sites**
- **Illinois EPA provided concurrence of OPS to USEPA for 11 sites**
- **USEPA is reviewing OPS of the 11 sites**
- **OPS submittal for 2 sites remaining**



Activities Planned for 2015

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- **Groundwater sites**
 - **Groundwater monitoring**
 - **RPO where applicable**
 - **Site closure documentation**
- **4 Landfills**
 - **Operation, monitoring, and maintenance**



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White Hall Abatement & Demolition

- **Constructed in WWII era for use as offices, classrooms, and barracks, largest DoD building prior to the Pentagon**





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White Hall Abatement & Demolition

- Condition of building presents environmental, safety, and security threat to the community





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White Hall Abatement & Demolition

- Physical hazard from falling debris





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White Hall Abatement & Demolition

- **Abatement activities to begin May 2015**
 - **Asbestos floor tiles throughout and lead-based paint on present windows and doors**





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White Hall Abatement & Demolition

- Abatement of universal waste:
 - Light bulbs, light ballasts, switches, transformers, batteries, and tires





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White Hall Abatement & Demolition

- Wall art photographed

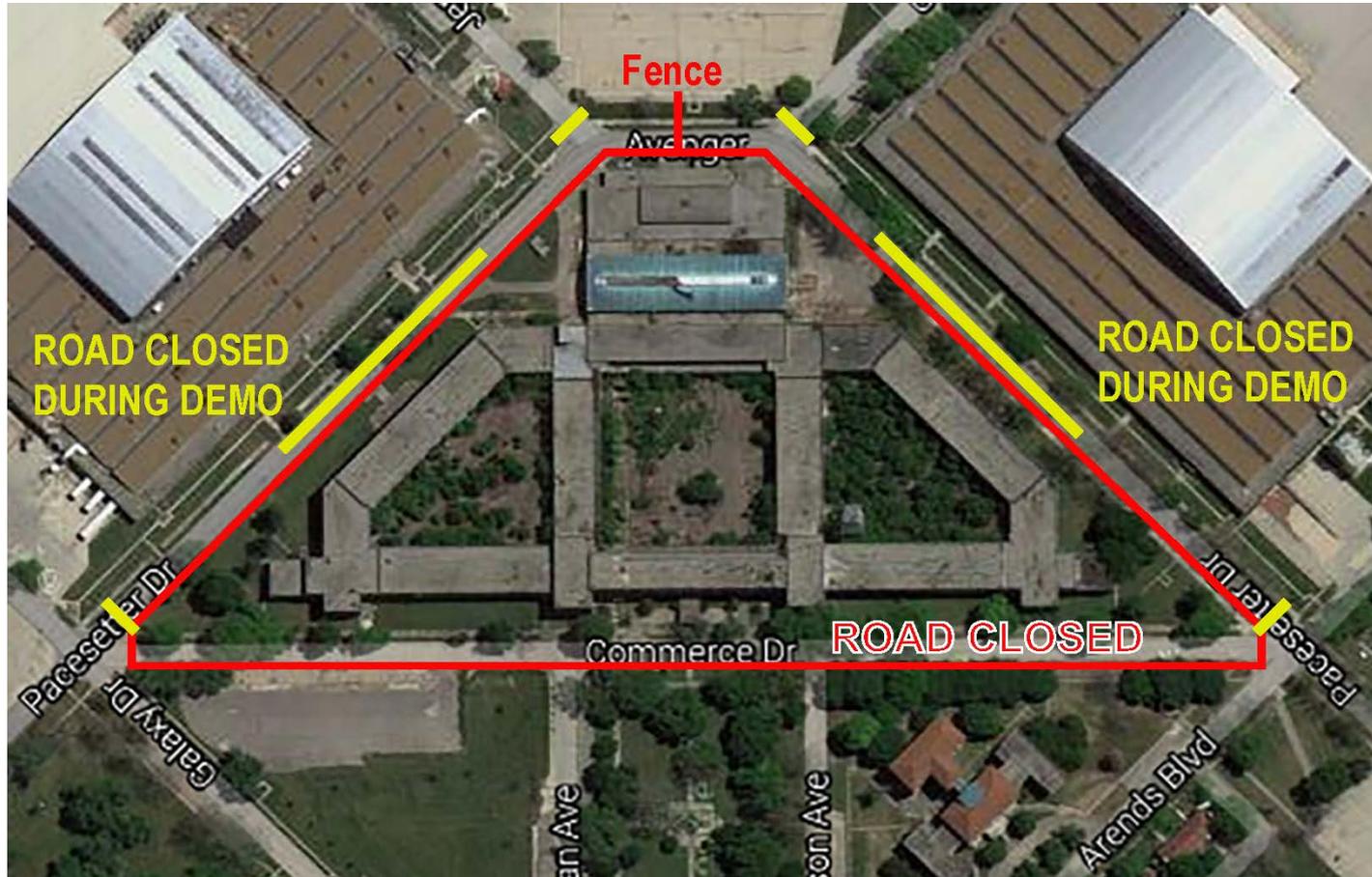




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White Hall Abatement & Demolition

■ Road closures





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White Hall Abatement & Demolition

- **Work completed**
 - **Work plan prepared and approved**
 - **National Historical Register covenant release**
 - **Mobilization**

- **Abatement and demolition schedule**
 - **Site fencing and closure of Commerce Drive: May 18**
 - **Abatement activities: May to December 2015**
 - **Demolition of structures: August 2015 to May 2016**
 - **Site restoration: May 2016 to October 2016**



Asbestos Abatement & Repair

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- **Asbestos Abatement and Repair in Select Facilities**
 - **17 buildings require further abatement by the Air Force**
 - **6 occupied buildings**
 - **11 unoccupied buildings**
 - **Detailed investigation and evaluation completed**
 - **Floor tiles, pipe insulation, door and window caulking, HVAC equipment and duct insulation, miscellaneous materials**
 - **Abatement may consist of repairs, encapsulation, or removal**
 - **Replacement of in-kind non-asbestos material, when applicable**
 - **Negative air pressure, High Efficiency Particulate Absorption filtration, and interior/exterior air monitoring will be used to ensure emissions do not occur (similar to Steam Plant effort)**
 - **Removal techniques include glove bag, wet scrape, wrap and seal**



Asbestos Abatement & Repair

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■ Abatement of floor tiles containing asbestos





Asbestos Abatement & Repair

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- Abatement of pipe insulation containing asbestos





Asbestos Abatement & Repair

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- **Work completed**
 - **Asbestos investigations and evaluations**
 - **Work Plan prepared and approved**
 - **Mobilization**
 - **Work started in Building 2 Hangar 3**

- **Abatement and demolition schedule**
 - **Building 2 Hangar 3: May to August 2015**
 - **Building 12 Grissom Hall: May to October 2015**
 - **Other Facilities: June to September 2015**

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Air Force Update



**Mr. Paul Carroll
BRAC Environmental Coordinator,
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Air Force Update

- **Multiple Facility Demolition and Abatement**
- **FAA Public Benefit Conveyance – Airport Phase IV Transfer**
- **Chemical Agent Training Area Investigation**
- **Emerging Contaminants**



- **Multiple Facility Demolition and Abatement**
 - **Steam Plant**
 - **All work is complete**
 - **Minor repair/reseeding planned for May 2015**
 - **Steam Vaults**
 - **All work is complete**
 - **Minor repair/reseeding of select areas planned for May 2015**
 - **Dosing & Imhoff Tanks**
 - **All work is complete**
 - **Minor repair/reseeding planned for May 2015**
 - **Demolition completion report being prepared**



- **FAA Public Benefit Conveyance – Airport Phase IV Transfer**
 - **Draft-Final Finding of Suitability to Transfer and Supplemental Environmental Baseline Survey submitted for Illinois EPA review/approval**
 - **Includes 5 parcels totaling 46.2 acres**
- **Chemical Agent Training Area Investigation**
 - **Former Chemical Agent Training Building identified as a “Feature of Interest”**
 - **Air Force working with Army Corps of Engineers to finalize scope of the investigation required**
 - **Contract to conduct investigation projected for award in Spring 2015**



Evaluation for Possible Releases of PFCs

- **Perfluorinated compounds (PFCs) have been used in a wide variety of industrial and commercial products such as leather products, paper and packaging, cookware and firefighting foams**
- **Aqueous Film-Forming Foam (AFFF) containing PFCs has been used since 1970 by the Air Force for firefighting**
- **PFCs are considered an Emerging Contaminant (EC) by the Air Force because they:**
 - **Have reasonably possible pathways to enter the environment**
 - **Present a potential unacceptable human health or environmental risk, and**
 - **Have evolving regulatory standards**
 - **Some states have promulgated drinking water levels**
 - **No federal standards promulgated**



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Evaluation for Possible Releases of PFCs

- **USEPA has established Provisional Health Advisories (PHAs) for two PFCs – PFOS and PFOA - to protect humans from potential risk of exposure to PFOA and PFOS through drinking water**
- **The Air Force guidance is to identify PFC releases, assess potential human exposure, and, when necessary, take action to protect human health**



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Evaluation for Possible Releases of PFCs

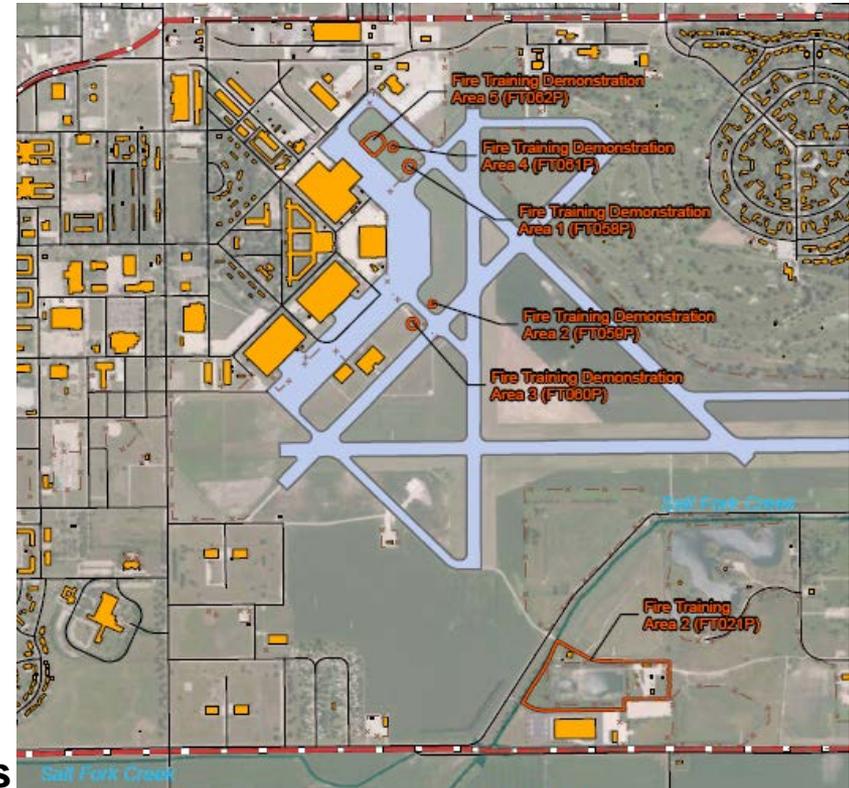
- **Beginning in 2014,**
 - **Determine if releases of PFCs have occurred, at former Fire Training Areas (FTAs), by sampling ground water, surface water, soil and sediment**
 - **Evaluate other activities, including storage locations, aircraft crash sites and fire suppressions systems, to identify other potential PFC release locations**
- **For confirmed releases, the Air Force is evaluating the extent of PFC contamination and conducting a pathway evaluation to determine potential risk to human health**
- **Based on the evaluation of risk and the potential for human exposure, the Air Force, in consultation with the Illinois EPA, will initiate mitigation measures, if necessary**



Evaluation for Possible Releases of PFCs

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- PFC Investigation at Former Chanute AFB
 - Five Fire Demonstration Areas and one Fire Training Area (FTA-2)
 - Soil, groundwater, surface water, and sediment sampling
 - Work plan reviewed by Illinois EPA
 - Fieldwork in November/December 2014
 - Additional sampling in Spring 2015
 - Reporting Fall 2015
- Preliminary Assessment of AFFF Use at Former Chanute AFB
 - Interviewing former base personnel
 - Reviewing historical records
 - Reviewing installation engineering and drawing records
 - Complete in Spring 2015
- Follow-on Site Inspection of identified areas programmed for 2015/16





Preliminary PFC Evaluation Results – General Summary

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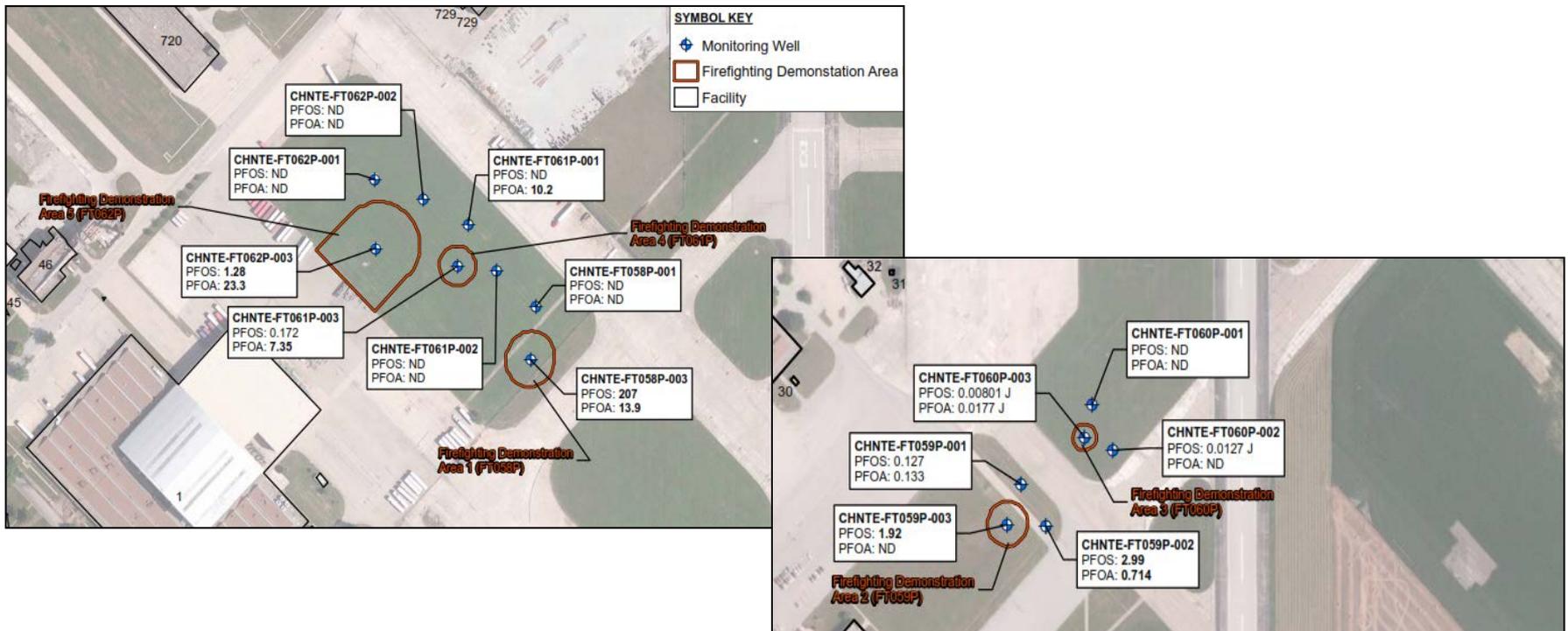
- **Data collected indicate the presence of PFCs at concentrations above Project Action Limits (PALs)**
- **PFCs were detected in the following areas:**
 - **Four of the Five Fire Demonstration Areas (FDAs)**
 - **Media Affected: Groundwater**
 - **No soil samples exceeded the PAL**
 - **Fire Training Area (FTA-2)**
 - **Media Affected: Surface Water and Groundwater**
 - **Only one soil sample exceeded the PAL**
- **The Village has tested the water supply for PFCs as part of their required monitoring; PFCs have not been detected**



Preliminary PFC Evaluation Results – Fire Demonstration Areas

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- Groundwater samples were collected from the shallow Wisconsinan system, which is not used as a public water supply
- PFCs were detected in groundwater at concentrations above the PALs in 4 of 5 FDAs

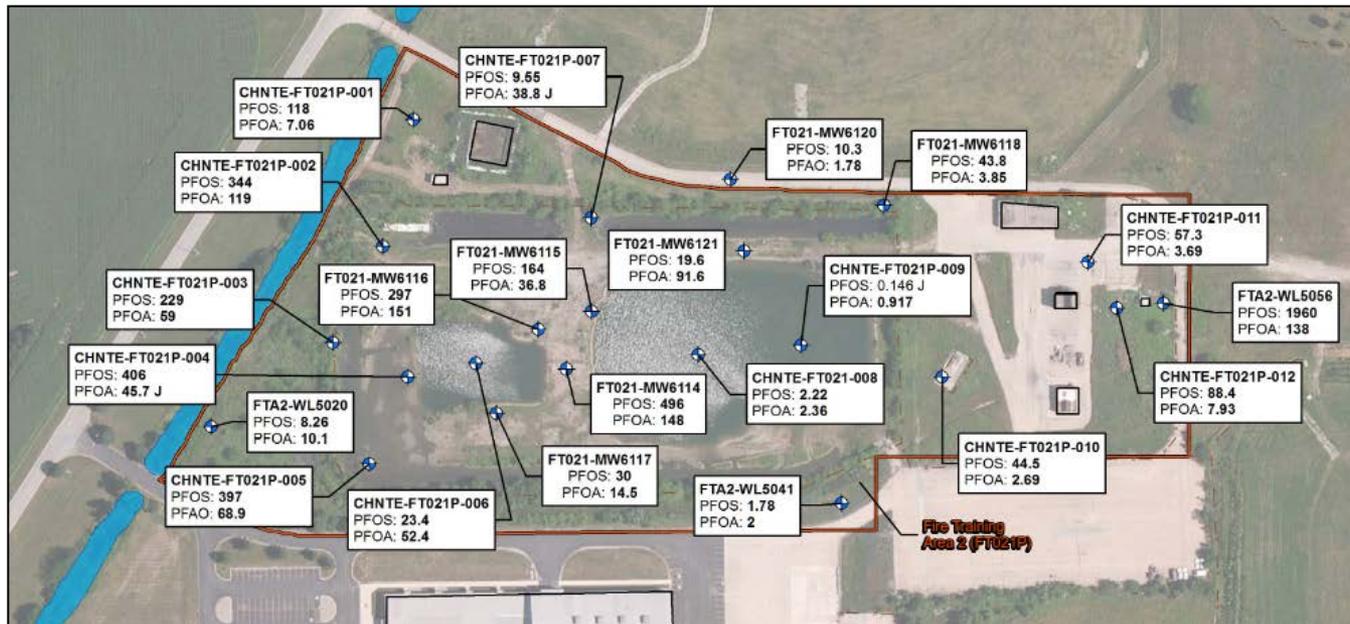




Preliminary PFC Evaluation Results – Fire Training Area 2

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- Groundwater samples were collected from the shallow Wisconsin system, which is not used as a public water supply
- As expected, PFCs were detected in groundwater across the FTA at concentrations above the PALs

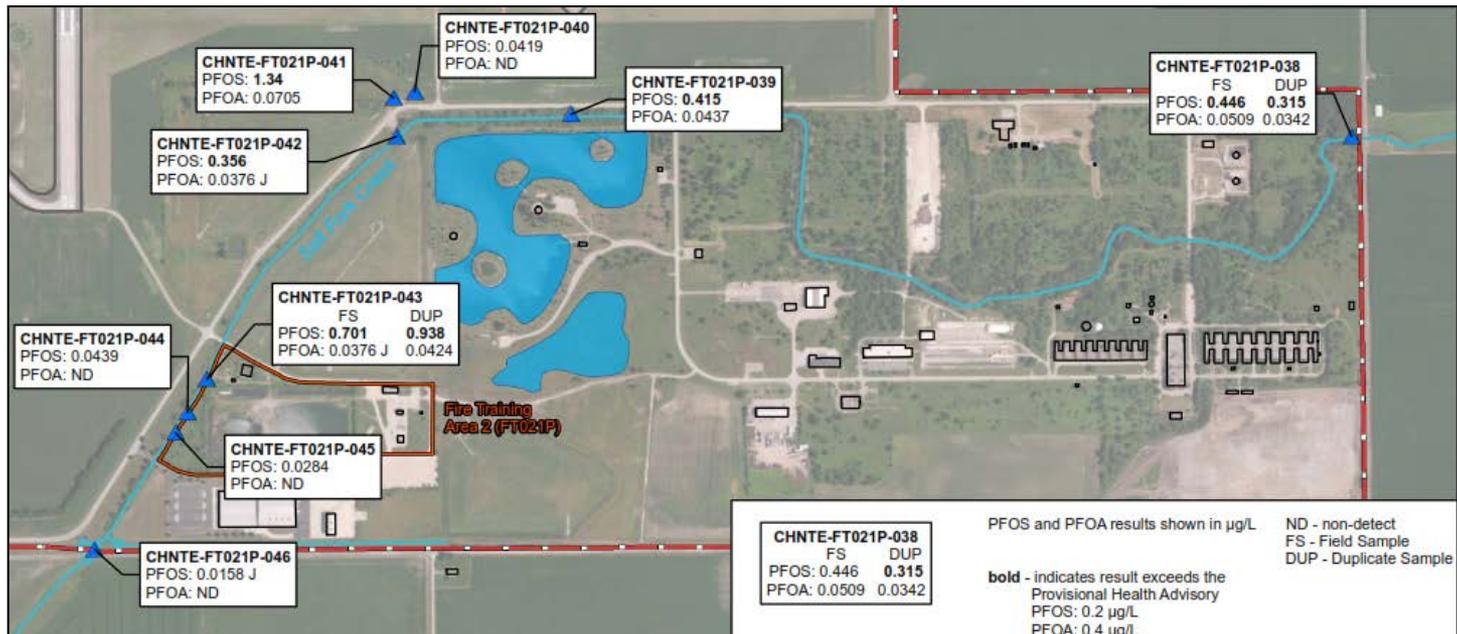




Preliminary PFC Evaluation Results – Sediment & Surface Water

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- Sediment and Surface Water – Salt Fork Creek
 - PFCs were detected in Salt Fork Creek surface water samples
 - Detections indicate that PFCs are being discharged into the creek from FTA-2 and the storm drainage system
 - PFCs were not detected in the sediment samples collected from Salt Fork Creek





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Proposed Additional Assessment Activities for Evaluation of PFCs

- **Spring/Summer 2015 proposed PFC investigation activities:**
 - **Confirm that PFCs are not present in the Illinoisan Aquifer**
 - **Identify sources of PFCs entering the storm drainage system and discharging to Salt Fork Creek**
 - **Confirm that Salt Fork Creek is not used as a drinking water source down gradient of the former base**
- **2015-16 Follow-on activities**
 - **Further identify and assess source areas**
 - **Evaluate PFCs where a potential to impact drinking water sources is identified**



TAPP Contractor Update

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Mr. Michael W. Rapps P.E.





TAPP Contractor Update

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■ **Activities**

- **Review of Documents, Minutes, etc.**
- **Placement of “A Small Dose of Toxicology” (Elementary Toxicology reference book) in Rantoul Public Library reference section, and distribution to RAB members of link to e-book of same, as a public education effort.**



TAPP Contractor Update

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- **Conducted site visits on 1-24-2015 and again on 4-11-2015**
- **Submitted Five-Year Review Questionnaire to Steven Birello of CB&I**
- **Discussions with Paul Carroll (AFCEC)**
- **Discussions with Chris Hill (Illinois EPA)**
- **Discussions with RAB Members**



TAPP Contractor Update

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- **Expected Future Activities**
 - **Review submitted documents, meeting minutes, etc.**
 - **Review Air Force and Department of Defense (DoD) developments with respect to any new USEPA emerging contaminants of concern**
 - **Discussions with AFCEC and Illinois EPA Staff**
 - **Discussions with RAB Members**



TAPP Contractor Update

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- **Expected Future Activities (Cont'd.)**
 - **Monitoring of USEPA Developments**
 - **USEPA Region 5 withdrew from oversight of the Chanute AFB cleanup program in 2010, recommending all remediation and cleanup review to the Illinois EPA.**
 - **After remedies are installed, USEPA Region 5 must certify that the site is OPS before Air Force property transfers to non-federal entities can proceed.**
 - **At present, this is an inter-governmental jurisdictional issue that is not currently technical in nature, but may develop into one.**
 - **Air Force, USEPA, and Illinois EPA met on 7 May to discuss the OPS and conduct a site visit.**
 - **USEPA is contracting for support to conduct the review.**
 - **Anticipate significant time for review, delay in transfer of remaining property.**



TAPP Contractor Update

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- **TAPP Contractor's Role (RAPPS)**
 - **The DoD Technical Assistance for Public Participation (TAPP) program provides assistance for obtaining technical assistance for interpreting scientific and engineering information on proposed or ongoing actions associated with environmental restoration.**
 - **TAPP assistance aids communication among the members of the RAB concerning environmental cleanup. The increased communication that results from TAPP assistance contributes to the efficiency, effectiveness and/or timeliness of restoration activities, and it provides for increased community awareness and acceptance of same.**



TAPP Contractor Update

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- **TAPP Contractor's Role (RAPPS) - Cont'd.**
 - **TAPP Contractor is not assigned to advocate for the Air Force, the Illinois EPA, private stakeholders, or any other involved party.**
 - **TAPP Contractor is here to provide RAB members with technical assistance in understanding complex technical or scientific issues.**
 - **RAB members should always feel free to call us for any technical advice.**



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RAB Member Topics of Interest (from the floor)



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Public Comments (from the floor)



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Meeting Wrap-Up

- **Review action items for next meeting**
- **Proposed agenda items for next meeting**
- **Proposed next RAB meeting:**
 - **Date: November 19, 2015**
 - **Time: Noon**
 - **Location: Community Service Center
520 East Wabash Avenue**