

**Second Five Year Recurring Review Report
The Former Forest Park Recreation Camp
St. Louis, Missouri**

**Defense Environmental Restoration Program-
Formerly Used Defense Site (DERP-FUDS)
Site #B07MO098801**

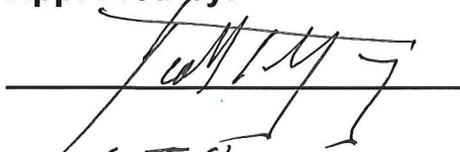


September 2015

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List of Acronyms

AOC	Area of Concern
ARARs	applicable or relevant and appropriate requirements
ASR	Archives Search Report
CEHNC	U.S. Army Engineering and Support Center, Huntsville (Huntsville Center)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation and Liability Information System
CFR	Code of Federal Regulations
DERA	Defense Environmental Restoration Act
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
EE/CA	Engineering Evaluation/Cost Analysis
EOD	Explosive Ordnance Disposal
FUDS	Formerly Used Defense Site
FY	Fiscal Year
FYR	Five-Year Review
HTW	Hazardous and Toxic Waste
IC	Institutional Control
INPR	Inventory Project Report
IRA	Interim Removal Action
LIR	Line Item Review
LTM	Long-Term Management
LUC	Land Use Control
MDNR	Missouri Department of Natural Resources
MEC	Munitions and Explosives of Concern
MOA	Memorandum of Agreement
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NOFA	No Further Action
NPL	National Priority List
O&M	Operations and Maintenance
OE	Ordnance and Explosives

POC	Point of Contact
QAR	Quality Assurance Report
RAO	Remedial Action Objective
RIP	Remedy in Place
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
UU/UE	Unlimited use and unrestricted exposure
UXO	Unexploded Ordnance
WP	White Phosphorus
WWI	World War I

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Executive Summary

The U.S. Army Corps of Engineers (USACE) has conducted a second five year Recurring Review for the Ordnance and Explosives (OE) Response Action at the former Forest Park Recreation Camp (also referred to as the Forest Park Area of Concern (AOC)) in St. Louis, Missouri. The first five year Recurring Review was performed in 2010. Under the Defense Environmental Restoration Act (DERA), the USACE is responsible for cleanup actions at Formerly Used Defense Sites (FUDS) on behalf of the Department of Defense (DoD). A Recurring Review also identifies issues and provides recommendations to resolve them. This Recurring Review is required at the former Forest Park Recreation Camp because unexploded ordnance (UXO) may remain buried on site thereby preventing unlimited use and unrestricted exposure (UU/UE). The methods, findings, and conclusions of the review are documented in this Recurring Review report. In addition, this report summarizes issues identified during the review and includes recommendations and follow-up actions for them.

An Action Memorandum was signed on 23 November 2004, which selected a response action consisting of a combination of long-term management (LTM) and land use control (LUC) actions, previously referred to in the Forest Park documents as Institutional Controls (ICs), to include the distribution of educational awareness materials, a Memorandum of Agreement (MOA) between the City of St. Louis and the USACE, and the passage of a city ordinance which binds the City of St. Louis to the provisions of the MOA. The site achieved construction completion in March 2005 when the MOA was signed by the Kansas City District Commander. Because the selected response action does not include construction-type activities, the MOA approval date is considered construction completion for the purposes of this review. However, because a removal action was conducted at the former Forest Park Recreation Camp project site using a removal response process (e.g. a non-time critical removal action was conducted) and not a remedial response process, plans are in place to transition the project to the remedial response process in FY 2016. Returning to the remedial response process (e.g. Remedial Investigation/Feasibility Study (RI/FS), Proposed Plan, and Decision Document) will achieve a permanent remedy in place (RIP) and also the performance of a statutory mandated Five-Year Review (FYR), if required.

The assessment of the second five year Recurring Review found that the response action was implemented in accordance with the requirements found in the 2004 Action Memorandum (Attachment 1). The purpose of the Action Memorandum is to present the selected response action that reduces the risk of exposure to military munitions at the Forest Park site. The response action, consisting of the distribution of educational awareness materials to St. Louis City officials, a MOA between the City of St. Louis and USACE and passage of a city ordinance which binds the City of St. Louis to the provisions of the MOA, is functioning as designed and is expected to continue to be protective of human health, safety, and the environment by preventing future exposure of potential UXO to the public and onsite workers. Additionally, the second five year Recurring Review confirmed that long-term management responsibilities are being performed in accordance with the 2005 MOA (Attachment 2) between USACE and the City of St. Louis that includes annual inspections and stakeholder interviews. The MOA defines the relationship, responsibilities, and general objectives under which the City of St. Louis and the USACE provide future military munitions response and LTM actions during any and all construction activities on the site of the Forest Park AOC.

Recurring Review Summary Form

SITE IDENTIFICATION		
Site Name: Former Forest Park Recreation Camp		
FUDS Project Number: B07MO098801		
Region: 7	State: MO	County: St. Louis
SITE STATUS		
Selected Response Action Description: Educational awareness pamphlets, a MOA that outlines LTM actions consisting of annual inspections and stakeholder interviews, and passage of city ordinance that binds the City of St. Louis to the terms of the MOA		
Response Action Status: Ongoing		
Multiple OUs? NO	Initiation Date of Response Action: 11/23/2004 Construction Completion Date: 3/17/2005	
Has site been put into reuse? YES		
REVIEW STATUS		
Lead agency: U.S. Army Corps of Engineers, Kansas City District		
Author Name (Federal Project Manager): Josephine Newton-Lund		
Author Affiliation: US Army Corps of Engineers, Kansas City District		
Review Period: 12/01/2014 to 05/08/2015		
Date of Site Inspection: 04/09/15		
Type of Review: Discretionary Review		
Review Number: 2		
Triggering Action Date: Previous recurring review, 09/08/2010		
Due Date (five years after triggering action date): 09/08/2015		
Issues/Recommendations		
OU(s) without Issues Identified in the Recurring Review		
There are no issues identified in this Recurring Review.		
Recommendations Identified in the Recurring Review		
A recommendation has been identified as an administrative improvement to City Ordinance 68329, but does not affect the protectiveness of the removal action. Because several stakeholders' names found on a Point-of-Contact (POC) list contained in the MOA have changed along with addresses and phone numbers, it is recommended that the POC list be updated in the MOA and added to City Ordinance 68329 by amendment or through the creation and passage of a new ordinance.		
Sitewide Protectiveness Statement		
Protectiveness Determination: Protective		
Addendum Due Date (if applicable):		
Protectiveness Statement: <i>The removal action at the former Forest Park Recreation Camp is protective of human health and the environment.</i>		

I. Introduction

The USACE has conducted a second five year Recurring Review for the OE Response Action at the former Forest Park Recreation Camp site, B07MO098801, in St. Louis, Missouri. A figure of the location of Forest Park is found in Attachment 4. The Forest Park AOC is the subject of this review. A figure identifying the Forest Park AOC, including the approximate locations of munitions and explosives of concern (MEC) removals, is found in Attachment 5. The category of MEC associated with the Forest Park AOC is UXO.

The purpose of a Recurring Review for an OE response action is to determine whether the response action at a site continues to minimize explosives safety risks and continues to be protective of human health, safety, and the environment. The methods, findings, and conclusions of the review are documented in this report.

The Recurring Review was conducted from 1 December 2014 to 8 May 2015 and is the second five year Recurring Review for this site. The initiation date of the response action for this site is 23 November 2004 when the Action Memorandum was signed by the Kansas City District Commander. The previous Recurring Review was conducted in 2010.

The Kansas City District conducted the Recurring Review. Josephine Newton-Lund, Senior Project Manager, 816-389-3912, Josephine.m.newton-lund@usace.army.mil conducted the review.

Additionally, because a removal action was conducted at the former Forest Park Recreation Camp project site using a removal response process (e.g. a non-time critical removal action was conducted) and not a remedial response process, plans are in place to transition the project to the remedial response process in FY 2016. Returning to the remedial response process (e.g. RI/FS, Proposed Plan, and Decision Document) will achieve a permanent remedy in place (RIP) and also the performance of a statutory mandated FYR, if required.

II. Site Chronology

The table below lists the chronology of events at the former Forest Park Recreation Camp site.

Chronology of Site Events	
Event	Date
Forest Park dedicated at a large public ceremony	1876
Louisiana Purchase Exposition (also known as the 1904 World's Fair) held at Forest Park	1904
Numerous military demonstrations held at Forest Park during World War I (WWI)	1917-1918
St. Louis Exposition held at Forest Park. Mock WWI battle demonstrations included use of military munitions	1926
Army was granted permission to use 17 acres in Forest Park for a recreation camp for 1,500 soldiers during World War II (WWII)	1942
Mock WWII battle conducted around Art Hill area of Forest Park with soldiers from Jefferson Barracks	1943
Workers installing a sprinkler system on a fairway of the lower 9-hole Forest Park golf course uncover a unexploded 3" Stokes mortar round	1988
DERP-FUDS Inventory Project Report (INPR)- USACE-KC	1995
DERP-FUDS Archives Search Report (ASR)- USACE-St. Louis	1997

Missouri Department of Natural Resources (MDNR) notifies USACE-KC of future renovations of Forest Park, including the municipal golf course	August 2000
Information meeting and site visit conducted by USACE-KC with representatives from City of St. Louis and Missouri Department of Natural Resources (MDNR) to discuss potential ordnance risk related to the City's future renovation of the Forest Park municipal golf course.	8 September 2000
Information meeting conducted by USACE-KC with City of St. Louis engineer and golf course manager - Plan of Action Recommendations presented. USACE-KC and St. Louis Districts also visit with St. Louis Metropolitan Police's Bomb and Arson Squad.	11 October 2000
Information meeting conducted by USACE-KC with City of St. Louis golf course manager to discuss finalization of golf course renovation designs	9 April 2001
Golf Course renovations pre-construction meeting conducted by City of St. Louis- USACE KC and St. Louis Districts invited to conduct ordnance awareness presentation. USACE also performs a courtesy visit with the St. Louis Metropolitan Police Department.	28 August 2001
Golf course renovations begin. USACE-St. Louis District begins full-time construction oversight.	17 September 2001

During renovations of the Forest Park golf course, a bulldozer worker moving dirt uncovers a 4" Stokes mortar. St. Louis Metropolitan Police Bomb Squad remove ordnance item.	5 December 2001
During renovations of the Forest Park golf course, a 4" Stokes mortar was excavated by an irrigation-trenching machine. St. Louis Metropolitan Police Bomb and Arson Squad remove ordnance item.	15 May 2002
During continued renovations of the Forest Park golf course, a 4" Stokes mortar was found. St. Louis Metropolitan Police Bomb and Arson Squad remove ordnance item.	20 June 2002
During renovation work at the Grand Basin located across from the Forest Park golf course, a construction worker excavated a Livens projector, which is a British designed mortar-like munition used in WWI that typically contained chemical agents, but could also contain flammable or explosive fill. The item was determined to be empty and was removed by the St. Louis Metropolitan Police Department Bomb and Arson Squad.	8 July 2002
USACE-KC issues press release to inform public of recently discovered UXO and to caution public about the dangers of removing or tampering with unknown objects	15 July 2002
Public availability session held to discuss recommended response action alternative for Forest Park munitions and explosives of concern	13 July 2004
Engineering Evaluation/Cost Analysis-USACE-Omaha District	2004
Action Memorandum- USACE-Omaha District	2004
Distribution of UXO informational pamphlets to City of St. Louis	2004

MOA between USACE-KC and City of St. Louis	2005
Annual site inspections of Forest Park golf course and stakeholder interviews	2005-Present
Passage of City Ordinance 68329 which binds the City of St. Louis to the provisions of the MOA	2009
First five year Recurring Review Report	8 September 2010
UXO safety briefing by USACE-St. Louis District to City of St. Louis and their sub-contractor selected to install new way-finding signs in Forest Park	27 May 2014
UXO safety briefing by USACE-St. Louis District to City of St. Louis and a replacement sub-contractor selected to install new way-finding signs in Forest Park	21 July 2014

III. Background

Physical Characteristics

Forest Park is located within the west central portion of the City of St. Louis, approximately 5 to 6 miles west of the downtown area. Forest Park is bordered by Highway I-64, Kingshighway Boulevard, Lindell Boulevard, and Skinker Boulevard (Attachment 4). Although, the former Forest Park Recreation Camp was located in the southeastern corner of Forest Park, the area of concern where military munitions were discovered is located in the northwestern portion of Forest Park (Attachment 5).

The topography of Forest Park and surrounding area is of the gently-rolling prairie type, with low rounded hills and broad shallow valleys. The Mississippi River to the east, the Missouri River to the north, and the Meramec River to the south have cut large valleys. Flowing into these rivers are numerous small tributaries with shallow valleys separated by low ridges.

Surface drainage is by sheet flow to the park's streets, then via the storm sewer system to the River des Peres. The River des Peres drains most of the northwest and west metropolitan St. Louis area, and has regularly flooded portions of Forest Park during the park's first half century of existence. A bond issue, passed in 1923, allowed the stream to be put entirely underground in twin 23 feet high by 29 feet wide horseshoe-shaped storm sewers. Construction was completed in 1930. The river is now underground for its entire path through the park.

Flood waters are confined to the sewers except during rare high precipitation events when sewer surcharging and ponding within low areas of the park can occur. These ponds are within and near the old channel of the River des Peres, which is now used as a chain of recreation lakes. These areas generally extend along the north and east sides of the park. Ponding from River des Peres surcharging is of short duration, generally for less than 24 hours. All runoff from the park eventually flows into the Mississippi River via the River des Peres.

Land and Resource Use

Forest Park is currently used as a recreation area for the City of St. Louis. Facilities at the park include the St. Louis Art Museum, the St. Louis Zoo, the Missouri History Museum, the St. Louis Science Center and the Muny outdoor musical amphitheatre. It also serves as a sports center for golf (Norman K. Probstain Golf Course), tennis, baseball, bicycling, boating, fishing, handball, ice skating, roller blading, jogging, rugby and more.

The Norman K. Probstain Golf Course, where a primary portion of the Forest Park AOC is located, consists of three nine-hole courses. However, the mortar rounds were discovered in the relatively flat Hawthorne Course, which is sometimes referred to as the “lower nine”. The Grand Basin, which is surrounded by a majority of the golf course, is also considered a part of the AOC. Attachment 6 includes a photograph of the lower nine golf course and the Grand Basin.

As discussed in the 1995 Forest Park Master Plan, Forest Park belongs to all St. Louisans. The Park attracts 12 million visitors per year and is more than a scenic backdrop to an historic cityscape. The Park is recognized as an important gathering place where people of all ages, races and economic backgrounds can gather and mix in a positive way. As outlined in the Master Plan, over \$100 million of improvements were completed between 2001 and 2004 in time for the 100th anniversary of the 1904 World’s Fair. Therefore, it is expected that Forest Park will remain a recreation area for the foreseeable future. The following website provides additional information regarding the Forest Park Master Plan:

<https://www.stlouis-mo.gov/government/departments/planning/documents/forest-park-master-plan.cfm>

History of Contamination

Forest Park, a St. Louis City park, was established in 1876. Forest Park is one of the largest urban parks in the country at 1,371 acres. The 1904 World’s Fair used almost the entire western half of Forest Park and brought more than 19 million visitors to St. Louis. After the closing of the Fair, most of the buildings and exhibits were demolished and their debris buried on site.

Documented military use of Forest Park began with WWI. The only known military use of Forest Park was for patriotic public demonstrations and bivouacs, which are temporary encampments or shelters. Between 1917 and 1918 numerous military demonstrations were held at Forest Park, which included an Army tank demonstration, a military parade and a demonstration

of British aircraft. In 1926, the City of St. Louis held the St. Louis Exposition. As part of the Exposition, Army troops from Jefferson Barracks performed daily mock WWI battles. Historical records indicate that complaints were made concerning the loud noise of the 75mm cannons. The officer in charge of the battery agreed to reduce the charges for the remainder of the Exposition.

In 1942, the Army was granted permission to use 17 acres in the southeastern corner of Forest Park for a recreation camp for soldiers. The camp accommodated approximately 1,500 men and was to operate for the duration of World War II (WWII). By 1947, the camp was abandoned and the southeast corner of the park was restored. In 1943, during the recreation camp's operation, a mock battle for the public took place near the Art Hill area of Forest Park with soldiers from Jefferson Barracks. This mock battle included 350 soldiers, amphibious jeeps, a smoke screen and a final assault up Art Hill.

In 1988, workers installing a sprinkler system on the third fairway of the lower 9-hole golf course at Forest Park uncovered a live 3" Stokes mortar round containing white phosphorus (WP). The workers thought that the mortar round was a remnant of the 1904 World's Fair. The round was given to an individual who thought it was a type of time capsule. The next week the individual attempted to open the round in his home and caused the phosphorus to ignite. A local fire department responded and was able to contain the phosphorus by burying the round. The Granite City Illinois Support Center, 50th Explosive Ordnance Disposal Attachment recovered the round and disposed of it.

As part of the \$100 million of improvements at Forest Park as outlined in the 1995 Master Plan, the Forest Park Golf Course underwent renovations from 2001 through 2004. The golf course underwent a complete re-design that also included the construction of a new clubhouse. Pro golfer Hale Irwin's design firm was hired by the City of St. Louis to re-work the 27-hole course, which was renamed the Norman K. Probststein Golf Course. Not long after renovations began in September 2001 at the lower nine-hole course (Hawthorne Course), a bulldozer worker uncovered a 4" Stokes mortar while moving soil. The St. Louis Metropolitan Police Department's Bomb and Arson Unit removed the piece of ordnance, which contained white phosphorus. Attachment 7 presents a photo of the Stokes mortar.

As renovation work continued into 2002 at the golf course, two additional 4" Stokes mortars were uncovered at the lower nine-hole course location. Both items, which contained WP, were removed by the St. Louis Metropolitan Police Department and destroyed at an off-site location. In July 2002, during renovations of the Grand Basin located across from the lower nine-hole course, a construction worker excavated a Livens projector.

A Livens projector was a British designed mortar-like munition used in WWI that typically contained chemical agents, but could also contain flammable or explosive fill. The Livens projector was removed by the St. Louis Metropolitan Police Department, who determined it to be empty of WP. Attachment 8 provides a photo of the Livens projector.

Initial Response

Golf course renovations began in September 2001 with full-time construction oversight performed by USACE-St. Louis. One Stoke's mortar was removed and disposed of by the St. Louis Police Department in December 2001 after a bulldozer operator recognized the munition from the photo taped to the interior of the windshield. In 2002 as renovation work continued, two more Stokes mortar rounds were recognized by construction workers and later removed by the St. Louis Metropolitan Police Department. All three munition items contained WP, according to the police who transported the rounds to a quarry south of the city for detonation.

Concurrent with the golf course renovation work, construction began at the Grand Basin located across the street from the lower nine-hole course. USACE-KC and St. Louis Districts conducted ordnance awareness training to the Grand Basin contractor similar to the golf course contractors. In June 2002, a construction worker excavated a Livens projector. The item was determined to be empty and was removed by the St. Louis Metropolitan Police Department.

Basis for Taking Action

Military munitions discoveries in 1988, 2001 and 2002 at the Forest Park AOC revealed UXO contamination present and served as the basis for taking action at this Site. The potential for remaining UXO presented an imminent and substantial endangerment to public safety. Approval of an action memorandum in 2004 authorized the expenditure of funds for the reproduction and distribution of educational awareness pamphlets. In addition, the action memorandum authorized the expenditure of funds to develop the memorandum of agreement between the City of St. Louis and USACE and to assist the City in the preparation of a city ordinance.

IV. Removal Actions

Removal Action Selection

The Action Memorandum for the Forest Park AOC was signed on November 23, 2004 and selected the removal action of Institutional Controls consisting of a combination of education awareness and a MOA between the City of St. Louis and the USACE. The removal action consisted of the following:

- Distribution of military munitions educational awareness materials in the form of pamphlets.
- Providing a MOA between the USACE and the City of St. Louis. The purpose of the MOA is to define the relationship, responsibilities and general objectives under which the City of St. Louis and USACE provide future military munitions response and LTM during any and all construction activities on the site of the Forest Park AOC. Additionally, in accordance with the terms of the MOA, the City of St. Louis is authorized to enter into the provisions of the MOA under a City Ordinance.

The Action Memorandum further explains the following rationale for the selected removal action:

- The Forest Park AOC is currently used as a golf course and city park open space. Forest park has essentially unlimited access to the public and receives more than 12 million visitors annually.
- Forest Park has been a city park since its establishment in June 1876. The likelihood of encountering MEC on the ground surface, where members of the public are most likely to encounter it, is considered extremely low.
- Institutional Controls is considered an effective response action, is the most implementable of the alternatives, and is also the least costly.
- Regulatory, community, and city government stakeholders accept this risk-reduction alternative.

Removal Action Implementation

An EE/CA was completed by the USACE in 2004 and an Action Memorandum was signed in the same year. Implementation of the removal action began in 2004 with the reproduction and distribution of educational awareness pamphlets to the City of St. Louis engineering and construction departments, the St. Louis Parks and Recreation department, the Norman K. Probstin golf staff and the St. Louis Art Museum facility director.

In 2005, the MOA between the City of St. Louis and USACE was signed. The purpose of the MOA is to define the relationship, responsibilities and general objectives under which the City of St. Louis and USACE provide future military munitions response and LTM during any and all construction activities on the site of the Forest Park AOC.

As a final component of the removal action and in accordance with the terms of the MOA, a city ordinance was approved by the City of St. Louis in 2009. The purpose of the ordinance is to bind the City to the provisions of the MOA, which is similar to the purpose of a deed restriction or restrictive covenant. Because a deed to the Forest Park property does not exist, the creation of a city ordinance was agreed to by the City, MDNR and USACE.

Operation and Maintenance

Operation and maintenance (O&M) activities are required for the land use controls implemented at the Forest Park Site in accordance with the MOA. O&M activities include site inspections and stakeholder interviews that are conducted by USACE annually. The purpose of the annual site inspections and interviews is for USACE to remain actively informed of any new or different information regarding the Site. Distribution of additional educational awareness pamphlets to the City of St. Louis project manager is also performed at the annual interview. These materials are an important component of the removal action, which promotes military munitions awareness and assists in the identification of munitions to construction personnel working in the Forest Park AOC. The pamphlet is in English on the front side and Spanish on the back, due to the observation of some Spanish-speaking construction workers during the golf course renovations. A copy of the pamphlet is found in Attachment 9. Five site inspections, including stakeholder interviews have been performed since the first five year Recurring Review conducted in 2010. Quality Assurance Reports (QARs) for 2011-2014 are provided in Attachment 10. A summation of the 2015 site inspection and interviews can be found in the Site Inspection sub-section of VI. Recurring Review Process.

2015 site inspection participants included the project managers from MDNR (Mr. Kurt Bruemmer) and USACE-Kansas City (Josephine Newton-Lund) and the MDNR Community Involvement Coordinator, Jennifer Lamons. Stakeholders interviewed by USACE include the following:

Eric Bothe- Project Manager, Design Division, Board of Public Utilities, City of St. Louis

Dan Skillman- Commissioner, St. Louis Parks and Recreation

Jeff Raffelson- Managing Director, Norman K. Probstein Golf Course

Mark Macinski- Facility Manager, St. Louis Art Museum

Detective Sgt Chris Stamper- St. Louis Metropolitan Police Department Bomb and Arson Squad

Ryan Field, Military Munitions Design Center Manager, U.S. Army Corps of Engineers, Omaha District

V. Progress Since 2010 Five Year Recurring Review

The assessment of the former Forest Park Recreation Camp FUDS site during the first five year Recurring Review concluded that the response action was protective and was expected to remain protective of human health and the environment through the following actions that included LTM and LUC actions, which consist of the distribution of educational awareness materials to the City of St. Louis construction workers and contractors, a MOA between the City of St. Louis and the USACE that enforce the responsibilities under which the City of St. Louis and USACE provide continued military munitions response and LTM actions during any and all construction activities at the Forest Park AOC, and City Ordinance 68329, which binds the City of St. Louis to the provisions of the MOA.

No issues were identified in the first five year Recurring Review Report. However, the report recommended that annual site inspections and stakeholder interviews by USACE and MDNR to ensure that educational awareness measures are being performed by the City of St. Louis continue. In addition, the first five year Recurring Review Report recommended annual monitoring of the City of St. Louis' website, <http://www.slpl.lib.mo.us/cco/ords/search.htm>, in order to ensure City Ordinance 68329 has not been repealed.

VI. Five Year Recurring Review Process

Administrative Components

The second five year Recurring Review was led by Josephine Newton-Lund, USACE-Kansas City project manager for this site. The review was conducted between December 2014 and May 2015. The recurring review included document review, internet searches, a site inspection, stakeholder interviews, and report development and review.

Community Involvement

A newspaper advertisement was placed in the *St. Louis Post Dispatch* on January 18, 2015 notifying the public of the start of the second five year Recurring Review process (Attachment 11). In addition, notification of the second five year Recurring Review to stakeholders was presented during interviews conducted on April 9, 2015. Upon completion of this report, a notice will be placed in the newspaper announcing the completion of the second five year Recurring Review and its availability at the St. Louis Public Library and on-line at the USACE-Kansas City project website at <http://www.nwk.usace.army.mil/Missions/Environmental/EnvironmentalProjects/FormerForestParkRecreationCamp.aspx>.

Document Review

The second five year Recurring Review included a review of all relevant documents including decision documents, site investigation documents, and quality assurance reports. Attachment 12 provides a list of documents reviewed.

Data Review

Site inspections and stakeholder interviews have been conducted since 2005. Upon completion of these inspections, QARs, which summarize the findings from the site inspections and interviews, are submitted to stakeholders and MDNR. As stated previously in this document, QARs for 2011-2014 are found in Attachment 10. The U.S. Environmental Protection Agency (USEPA) deferred lead regulatory involvement on this non-National Priority List (NPL) site to MDNR during the development of the EE/CA back in 2004 and as such, are not involved in the project as a regulator or provided the QARs.

For 2015, interview records documenting some of the stakeholder interviews are also provided in Attachment 13. Other stakeholder interview discussions are documented in the Interviews section of this report. Additionally, a summary of findings from the April 9, 2015 site inspection is found in the following Site Inspection section.

Site Inspection

Five site inspections have been conducted since 2010 when the first five year Recurring Review was completed. The most recent annual site inspection was conducted on April 9, 2015. Site inspection participants included the project managers from MDNR and USACE Kansas City District and the Community Involvement Coordinator from MDNR. The purpose of the inspections is to remain actively informed of any new or different information regarding the Site. In particular, information concerning construction work involving excavation in the Forest Park AOC would be of interest and require USACE review of plans and educational awareness support that consists of safety briefings by a USACE ordnance safety specialist.

No significant issues were identified during the April 9, 2015 site inspection. No construction activities were observed at the lower nine holes of the golf course or Grand Basin area. However, new way-finding signs were observed throughout the park (Attachment 14). As identified in the Site Chronology section of this report, ordnance safety briefings were conducted by a USACE-St. Louis District ordnance safety specialist prior to sign installation in 2014.

Interviews

Interviews are conducted annually with representatives from the City of St. Louis' Board of Public Service, the Norman K. Probsteyn golf course, the St. Louis Parks and Recreation Department, the St. Louis Art Museum and the St. Louis Metropolitan Police Department. Stakeholder interviews are conducted in-person by the USACE project manager and also by phone and e-mail. Interview information from 2011-2014 can be found in the quality assurance reports contained in Attachment 10.

The most recent interviews with stakeholders were conducted in-person by the USACE project manager on April 9, 2015. The MDNR project manager and MDNR Community Involvement Coordinator were also present for in-person interviews. For annual stakeholder interviews, two questions are presented to stakeholders- 1) Is the stakeholder aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area, and Art Hill? and 2) Does the stakeholder anticipate any construction activities in the next twelve months at the military munitions areas of concern? However, for the 2015 in-person interviews, a total of eight questions were presented to stakeholders in association with the second five-year Recurring Review. The questions presented to stakeholders are as follows:

- 1) What is your overall impression of the project?
- 2) Are you aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area, and Art Hill the past 12 months?
- 3) Are there any community concerns that you are aware of regarding long-term management of the Forest Park site?
- 4) Are routine maintenance workers informed of the buried unexploded ordnance (UXO) at the Forest Park site?
- 5) Have any problems or difficulties been encountered during long-term management activities at the Forest park site?
- 6) Is the response action at the Forest Park site, which consists of the distribution of educational awareness materials to St. Louis City officials, a Memorandum of Agreement (MOA) between the City of St. Louis and the Corps, and passage of a city ordinance which binds the City of St. Louis to the provisions of the MOA, functioning as expected?

- 7) Do you anticipate any construction activities in the next 12 months at any of the military munitions areas of concern, which include the lower nine holes of the Norman K. Probststein Golf Course, the Grand Basin area, and Art Hill?
- 8) Are there any comments, suggestions, or recommendations regarding the site's long-term management activities?

Responses to the above interview questions that were presented to Jeff Raffelson, Director of Operations-Eagle Golf, Dan Skillman, Commissioner-City of St. Louis Parks Division, and Eric Bothe, Project Manager-City of St. Louis Board of Public Service on April 9, 2015 are found in interview records included in Attachment 13.

In summary, the stakeholders' overall impression of the project was positive and they believed the annual visits by USACE have been beneficial. Furthermore, the stakeholders were not aware of any community concerns or of any military munitions discoveries at Forest Park that last year. In response to the question concerning construction activities in the next twelve months, stakeholders provided information regarding four upcoming construction projects. They are as follows:

In 2015:

- 1) Renovation of the sand bunkers at the Norman K. Probststein Golf Course.
- 2) Replacement of a manhole by the St. Louis Metropolitan Sewer District (MSD) near the intersection of Skinker and Lindell Boulevards adjacent to Hole 3 of the lower nine hole golf course (Hawthorne Course).

In 2016:

- 1) Installation of remote valves at pond inlets along Lagoon Drive.
- 2) Installation of a new entry sign at Lagoon Drive and Skinker Boulevard.

Similar to previous construction activities at Forest Park, arrangements will be made by the USACE-Kansas City project manager for the USACE-St. Louis District ordnance safety specialist to conduct UXO safety briefings to City of St. Louis construction contractors.

An additional question was asked of Mr. Bothe of the Board of Public Service. The question presented to Mr. Bothe is as follows:

Can City Ordinance 68329, which binds the City of St. Louis to the provisions found in the MOA be amended with an updated POC list?

The USACE-Kansas City project manager presented the question at the interview because several of the stakeholders' names found on the POC list have changed along with addresses and phone numbers in some instances. Amending the existing ordinance with an updated POC list or creating a new ordinance to include the MOA with an updated POC list was discussed. Mr. Bothe offered to contact City Alderwoman, Lyda Krewson to determine whether a new ordinance will need to be drafted and passed by the Board of Aldermen or if the existing ordinance could be amended. Furthermore, all parties agreed that the inclusion of stakeholders' names was no longer a good idea due to frequent staff turnover. Therefore, the POC list has been updated to remove individuals' names and phone numbers and addresses have been updated. The updated POC list is found in Attachment 15.

A March 24, 2015 e-mail interview was conducted with Mr. Ryan Field, Military Munitions Design Center Manager with the USACE-Omaha District, in regard to new approaches to improve munitions classification technology associated with the non-intrusive investigation of buried military munitions since the first five year Recurring Review was completed in 2010. Prior to the golf course renovations in 2001 and continuing up to 2010 when the first five year Recurring Review was completed, non-intrusive geophysical technology was not available to identify the type of object buried below the surface of the Forest Park golf course. The detection instruments used at that time simply detected a buried metallic object and could not identify the type of object present. Consequently, debris related to the 1904 World's Fair could not be distinguished from WWI military munitions. Non-intrusive technology used in 2004 to detect buried munitions when the EE/CA was developed, included magnetometers, which are sophisticated metal detectors. According to Mr. Field, available geophysical technology hasn't evolved to a point where metal objects buried underground can be distinguished from military munitions, such as a Stokes mortar. There is advanced classification to eliminate some metallic objects below the ground surface without intrusive investigation. The technology can match the geophysical signature of individual items to an internal library and suggest possible matches to munitions previously identified during research and development stages of the technology. However, the technology has not advanced to a point where it can be used in an area of high density, where possible World's Fair debris is located.

Despite the potential munitions classification limitations, a more thorough evaluation of existing munitions detection technology will be performed that may also include a limited field investigation as part of the RI/FS that is planned for FY 2016 after this project transitions to the remedial process as discussed in the Executive Summary.

A phone interview was conducted on April 13, 2015 with SGT Detective Chris Stamper of the St. Louis Regional Bomb and Arson Unit. SGT Stamper was aware of the munitions discoveries that occurred during golf renovations in 2001 and 2002, but not aware of any bomb and arson responses to military munitions discoveries at Forest Park over the last year. However, SGT Stamper provided information pertaining to the St. Louis Metropolitan Police Department's move in 2014 to a new headquarters building located at 1915 Olive Boulevard. He also mentioned that St. Louis City and St. Louis County Bomb and Arson units combined operations back in 2013 and are now called the St. Louis Regional Bomb and Arson Unit. According to a St. Louis Police Department news release and also news articles found on the internet, the combined force will improve response time, cut costs, and merge state-of-the-art equipment to provide the best possible police service to citizens.

As a follow up to the phone interview, the USACE-Kansas City District project manager met with SGT Stamper on May 4, 2015 to discuss upcoming construction activities at Forest Park. In particular, the sand bunker renovation work at the Hawthorne Course and the MSD manhole replacement project located adjacent to Hole 3 of the Hawthorne Course were discussed. In addition, informational material was provided to SGT Stamper, including a copy of the MOA and city ordinance, photos of the Stokes mortars and Livens Projector removed by the St. Louis Police Department Bomb and Arson Squad from Forest Park in 2001 and 2002, a figure identifying the munitions removal locations from 2001 and 2002, and a copy of the educational awareness pamphlet.

VII. Technical Assessment

Question A: Is the removal action functioning as intended by the decision documents?

YES.

The answer to this question addresses remedial action performance, early indicators of potential issues, O&M or LTM issues, and implementation of land use controls. The items are discussed as follows:

The review of documents and the results of the annual inspections and stakeholder interviews indicate that the removal action is functioning as intended by the requirements in the 2004 Action Memorandum. The selected removal action for this Site as identified in the Action Memorandum included a variety of land use controls to protect human health, safety, and the environment.

The LTM actions included a combination of educational awareness materials, a MOA between the City of St. Louis and the USACE and a LUC consisting of the passage of a city ordinance, which binds the City of St. Louis to the provisions of the MOA. The LTM actions and LUC have achieved the removal action criteria outlined in Section IV to protect human health, safety, and the environment. Site inspections and stakeholder interviews for the past ten years have resulted in the observance of no UXO or munitions debris and kept USACE actively informed of any new land use changes.

Additionally, the educational awareness measures performed by the City of St. Louis design and construction management staff, which includes onsite workers of the Norman K. Probststein Golf Course, are effectively protecting human health and safety from exposure to potential UXO and ensure future UXO discoveries, if any, would be responded to safely. In addition, a LUC consisting of the passage of City Ordinance 68329, which binds the City of St. Louis to the provisions found in the 2005 MOA, is another component of the removal action that contributes to the protection of human health, safety, and the environment by enforcing the responsibilities under which the City of St. Louis and USACE provide continued military munitions response during any and all construction activities at the Forest Park AOC.

Question B: Are the exposure assumptions, Toxicity Data, Cleanup Levels, and Remedial Action Objectives (RAOs) Used at the Time of Removal Action Selection Still Valid?

Are the exposure assumptions used at the time of removal action selection still valid:

Yes, exposure assumptions at the time of the removal action selection remain valid. Site land use has remained unchanged since removal action selection.

Are the Remedial Action Objectives (RAOs) Used at the Time of Removal Action Selection Still Valid?

Yes, the RAOs used at the time of removal action selection remain valid. The primary objective of the selected removal action is to reduce the risk of exposure to UXO through educational awareness. This has been accomplished by the distribution of educational awareness pamphlets to stakeholders and LTM actions consisting of annual site inspections and stakeholder interviews.

Question C: Has any other information come to light that could call into question the protectiveness of the removal action?

No, there is no other information that calls into question the protectiveness of the remedy.

Technical Assessment Summary

Based on information gathered during annual site inspections and from interviews with stakeholders, the removal action is functioning as intended by the Action Memorandum. There have been no changes in the physical conditions of the Forest Park AOC Site that would affect the protectiveness of the removal action. There is no other information that calls into question the protectiveness of the removal action.

VIII. Issues

There are no issues that adversely affect current or future protectiveness of the removal action.

IX. Recommendations and Follow-Up Actions

The following recommendation is an administrative improvement that does not affect current or future protectiveness:

- Because several stakeholders' names found on on a POC list contained in the MOA have changed along with addresses and phone numbers, it is recommended that the POC list be updated in the MOA and added to City Ordinance 68329 by amendment or through the creation and passage of a new city ordinance. The POC list has been updated by USACE, who will work with the City of St. Louis to amend the existing ordinance with the updated POC list or work on passage of a new ordinance.

X. Protectiveness Statement

Sitewide Protectiveness Statement	
Protectiveness Determination: Protective	Addendum Due Date (if applicable)
Protectiveness Statement: The removal action for the former Forest Park Recreation Camp is protective of human health and environment.	

XII. Next Review

Due to the transitioning from the removal process to the remedial process in FY 2016, the need for another Recurring Review for the former Forest Park Recreation Camp would depend on the outcome from the completion of the remedial process.

Attachment 1

Action Memorandum

ENGINEERING EVALUATION/COST ANALYSIS

ACTION MEMORANDUM

**FOREST PARK
FUDS PROJECT NUMBER B07MO0988
ST. LOUIS, MISSOURI**

FOREWORD

This Engineering Evaluation/Cost Analysis (EE/CA) Action Memorandum represents the selected response action alternative to reduce the risk from Munitions and Explosives of Concern (MEC) for Forest Park in St. Louis, MO. The United States Army Corps of Engineers is the executing agent under the Defense Environmental Restoration Program (DERP) at Forest Park, and developed this EE/CA Action Memorandum in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act as amended, and the National Contingency Plan. This decision is based on the information contained in the Administrative Record for this site. This document has been approved by the undersigned.

1.0 INTRODUCTION

The Forest Park Area of Concern (AOC) is an approximately 125 acre site located within Forest Park in the City of St. Louis, MO (See Attachment 1). The Forest Park AOC includes the Art Hill area and part of the Norman K. Probst Municipal Golf Course. Documented military use of Forest Park began with World War I and continued through World War II. The only known military use of Forest Park was limited to public demonstrations and bivouacs, which were temporary encampments. A detailed list of military activities and discoveries of military munitions is included in the Forest Park EE/CA Report (Sep 2004).

2.0 STATEMENT OF BASIS AND PURPOSE

The U.S. Army Corps of Engineers will implement the response alternative selected in the Forest Park EE/CA Report. The purpose of this EE/CA Action Memorandum is to present the selected response alternative to reduce the risk from MEC at Forest Park. Based on the results of the completed EE/CA, the recommended response alternative for Forest Park is Institutional Controls. Institutional Controls for Forest Park will include a combination of MEC education/awareness materials and a Memorandum of Agreement (MOA) between the City of St. Louis and the U.S. Army Corps of Engineers. The MOA will outline response requirements for MEC discoveries and distribution requirements for MEC education/awareness materials. This alternative has been chosen based on all information gathered, including public, city, and regulatory comment, and is protective of human health and the environment. The basis for this decision is documented in the Administrative Record for the site. The Administrative Record, which contains documents that were relied upon by the U.S. Army Corps of Engineers in selecting the response action, is available at the U.S. Army Corps of Engineers, Kansas City District, 601 E. 12th Street, Kansas City, Missouri 64106. The Information Repository, which contains up to date correspondence including the Administrative Record, is located at the St. Louis Public Library at 1301 Olive Street, St. Louis, Missouri 63103.

3.0 PROJECT JUSTIFICATION

The Forest Park AOC includes the Art Hill area and part of the Norman K. Probst Municipal Golf Course. During golf course and Grand Basin renovations, MEC items were discovered. The MEC consisted of four Stokes Mortars and one Livens Projector. A map is included which shows where the MEC items were discovered within the AOC (Attachment 2).

In July 1942, the Army was granted permission to use 17 acres in the southeastern corner of Forest Park for a recreation camp. Forest Park Recreation Camp accommodated approximately 1,500 men and was to operate for the duration of World War II. By 1947, the camp was abandoned and contracts were let by the government to restore the southeastern corner of the park. By July 1948, the restoration was complete and accepted by the City of St. Louis.

4.0 ALTERNATIVES CONSIDERED

The specific objective of the approved action is to reduce the potential hazards posed to the public and onsite workers by MEC. Four alternatives were evaluated, including:

- No Department of Defense Action Indicated (NDAI)
- Institutional Controls
- Comprehensive Surface Clearance with Institutional Controls
- Comprehensive Subsurface Clearance with Institutional Controls

5.0 HIGHLIGHTS OF COMMUNITY PARTICIPATION

A public meeting was held on July 13, 2004, at the Forest Park Visitor Center, located adjacent to the project site. Paid advertisements announcing the meeting were published in local newspapers. Regulatory and City of St. Louis representatives were verbally notified about the meeting. The 30 day public comment period occurred from July 13 to August 13, 2004. Public comments were received and addressed. Comments consisted of five comments received from Mark Ort of the Missouri Department of Natural Resources (MDNR). The comments and responses are summarized below:

Comments

General Comments: The word insure is frequently used in text when ensure seems to be what is meant. Please review definitions and maybe do a "find and replace" if you agree.

Specific Comments:

1. Section 5.4.1.4 (Depth Distribution), Page 5-6: Last sentence, "Therefore," is not a justified or logical conclusion based on preceding information in 5.4.1.4. Conclusion must be modified. (See my previous Comment 17, the USACE response, and text noted here.)
2. Section 6.5 (Summary), Page 6-14, Table 6-4: Seems like ranking for Alternative 4 should be a 3 rather than a 2. Please review.
3. Section 4.3.2.4 (Administrative Controls), Page D4-5, First Bullet: Provisions for placing a notice of MEC warning, advisories, and investigative/remedial information the public repository expressly created for this purpose should be included.
4. Section 5 (Stakeholder Identification), Page G-2: It seems stakeholder list should be ordered with respect to awareness of current issues, involvement with, and historic knowledge of the site, perhaps list bomb squad, USACE, MDNR, and then golf course, board of public service, EPA, and art museum(?). This is just a suggestion since there are lots of considerations.

Responses

General Comment Response: "insure" has been replaced with "ensure" throughout the document.

1. **Response:** The conclusion has been modified to read: Therefore, MEC that exists at the AOC is not expected on the ground surface. Any MEC that exists at the AOC is expected to be below the ground surface.

2. **Response:** Ranking for alternative 4 has been changed to 3 instead of 2.

3. **Response:** The following bullet has been added: Placement of MEC educational/awareness materials, advisories, and investigative/remedial information in the information repository established to provide information to the public.

4. **Response:** No change made. Stakeholder list is part of the Recurring Review Plan and all stakeholders will be contacted during Recurring Review.

6.0 COORDINATION SUMMARY

The draft and draft final EE/CA Report were coordinated with the Missouri Department of Natural Resources and the U.S. Environmental Protection Agency. The draft final EE/CA Report was coordinated with the City of St. Louis. Copies of the draft final EE/CA Report were available to the public for a 30 day review period at an information repository established at the Central Branch of the St. Louis Public Library.

7.0 SELECTION CRITERIA

The selection criteria used to evaluate the response alternatives included effectiveness, implementability, and cost. Specific factors considered during the selection process included overall protection of human health and the environment, technical feasibility, and public and regulatory/administrative acceptance of the alternative. These factors are discussed in more detail in Chapter 6 of the EE/CA Report.

8.0 DESCRIPTION OF SELECTED RESPONSE ACTION

The selected alternative for Forest Park is Institutional Controls, which include a combination of MEC education/awareness materials and a Memorandum of Agreement (MOA) between the City of St. Louis and the U.S. Army Corps of Engineers. The selected response action associated with Forest Park represents conclusions based on results of the site investigations, evaluation of risk-reduction alternatives, and an understanding of the current and projected land use. This alternative was selected based on the following rationale:

- The Forest Park AOC is currently used as a golf course and city park open space. Forest Park has essentially unlimited access to the public and receives more than 12 million visitors annually.
- Forest Park has been a city park since its establishment in June 1876. The likelihood of encountering MEC on the ground surface, where members of the public are most likely to encounter it, is considered extremely low.

- Institutional Controls is considered an effective response action, is the most implementable of the alternatives, and is also the least costly.
- Regulatory, community, and city government stakeholders accept this risk-reduction alternative.

9.0 RECURRING REVIEW

A review of the effectiveness of this risk-reduction alternative will be conducted five years from the implementation of the selected alternative.

10.0 TRADE OFF ANALYSIS

Institutional Controls is the preferred alternative to reduce the potential hazard of MEC at the Forest Park AOC, as noted below:

- The No Department of Defense Action Indicated (NDAI) alternative does not provide overall protection of human health and the environment.
- The Comprehensive Surface Clearance with Institutional Controls alternative does provide overall protection of human health and the environment. However, the likelihood of discovery of MEC items on the ground surface is extremely low, and implementation of this alternative would result in considerable disruption of Forest Park/City of St. Louis activities.
- The Comprehensive Subsurface Clearance with Institutional Controls alternative does provide overall protection of human health and the environment. However, the likelihood of discovery of significant numbers of MEC items below the ground surface is extremely low, and implementation of this alternative would result in considerable disruption of Forest Park/City of St. Louis activities.

11.0 PLANNED OR ONGOING REMEDIAL ACTION

There are no other planned or ongoing remedial activities at this site. Forest Park is not a Potentially Responsible Party site.

12.0 OUTSTANDING ISSUES

No outstanding policy issues exist relative to the Forest Park AOC.

13.0 DOCUMENTATION OF SIGNIFICANT CHANGES

If the actions outlined in this EE/CA Action Memorandum are delayed or not taken, there is a potential risk, although low, that a member of the public or onsite worker could encounter MEC. If they are unaware of the potential presence of MEC and what to do if encountered, there is the potential for an accident resulting in injury or death.

14.0 RECOMMENDATION AND APPROVAL

This Action Memorandum presents the selected response action alternative for addressing risk associated with MEC exposure at the Forest Park AOC in St. Louis, Missouri; Alternative 2, Institutional Controls, which includes distribution of MEC educational/awareness pamphlets, and development of an MOA between the Corps of Engineers, Kansas City District, the City of St. Louis, and the Board of Police Commissioners. The selected alternative was developed in accordance with CERCLA, as amended, and is consistent with the NCP. This decision is based on the administrative record for the site. The total project cost is estimated at \$98,840 over a 10-year period. This document has been approved by the undersigned.

Approved By:



MICHAEL A. ROSSI
Colonel, EN
Commanding

Date: 23 Nov 04

Attachment 2

Memorandum of Agreement

MEMORANDUM OF AGREEMENT (MOA)
BETWEEN
U.S. ARMY ENGINEER DISTRICT, KANSAS CITY
AND
CITY OF ST. LOUIS, MISSOURI
FOR
THE FORMER FOREST PARK RECREATION CAMP,
ST. LOUIS, MISSOURI

1. Purpose: The Purpose of this Memorandum of Agreement (MOA) is to define the relationship, responsibilities, and general objectives under which the City of St. Louis, Missouri (City of St. Louis), and the U.S. Army Corps of Engineers, Kansas City District (CENWK), will provide future military ordnance and explosives response and institutional controls during any and all construction activities on the site of the Forest Park Area of Concern detailed in the map ("the Site") attached to this document as Appendix A. All of the Parties are vitally interested in ensuring that the public is informed of the potential dangers of military ordnance and explosives on the Site, and in ensuring that qualified personnel perform any necessary emergency response to the discovery of potential military ordnance and explosives at the Site in a swift and proper manner. The MOA is intended to promote coordination and cooperation between the City of St. Louis and CENWK.

2. Authority: The MOA is created in accordance with the Defense Environmental Restoration Program (DERP), 10 U.S.C. 2701-2707, 1986, which authorizes the Secretary of Defense to conduct response actions at sites which were contaminated while under the jurisdiction of the Department of Defense (DoD). Additionally, 40 C.F.R. 300.120, designates DoD to be the removal response authority for incidents involving DoD military weapons and munitions under the jurisdiction, custody and control of DoD. The City of St. Louis is authorized to enter into the provisions of this MOA under City of St. Louis Ordinance # (add later).

3. Scope: This MOA defines and establishes mutually agreed upon terms, conditions, roles, and responsibilities related to future institutional controls implemented at the Site and future military ordnance and explosive response activities at the Site to ensure the safe and proper removal and disposal of potential military ordnance and explosives, especially unexploded ordnance (UXO).

4. CENWK Responsibilities:

a. CENWK is charged with fulfilling the DoD's responsibility to clean up contaminated Formerly Used Defense Sites (FUDS) in a geographic area that includes the Site.

b. CENWK will be responsible for the overall project management of the ordnance safety oversight efforts, including all funding actions, the coordination of community relations functions, and any notification to the Missouri Department Natural Resources (MDNR), the Environmental Protection Agency (EPA), and the City of St.

Louis, if it has not already been notified, of any discovery of potential military ordnance and explosives.

c. CENWK will make a minimum of one visit to the Site every year to remain actively informed of any new or different information regarding the Site.

d. CENWK will provide informational pamphlets related to the potential for military ordnance and explosives on the Site as part of the institutional controls implemented for the Site to the City of St. Louis. The pamphlets will be written in English and Spanish to illustrate and describe military ordnance and explosives items that may be found at the Site to construction workers, maintenance workers, and the general public. The pamphlets will instruct that no one should touch what is suspected to be a military ordnance or explosive item, and a person is to call 911 if a potential military ordnance or explosive item is found. CENWK will routinely check with the City of St. Louis regarding the supply of the informational pamphlets and will provide more pamphlets when necessary.

e. CENWK will be responsible for maintaining a current Point of Contact (POC) list attached to this MOA as Appendix B.

f. CENWK will be responsible for the management and coordination of all funding actions regarding informational pamphlets.

g. CENWK will be responsible for funding requests to FUDS Program Manager at Northwestern Division (NWD).

h. CENWK will be responsible for notification to MDNR and EPA of any changes to the FUDS program that would affect the terms of this MOA.

i. CENWK will be responsible for the coordination and performance of a five year review that will include a complete survey of the Site to determine if any changes have occurred and conduct interviews with City of St. Louis officials and stakeholders in order to obtain information concerning future land use at the site. This review shall begin five years after the Action Memorandum is signed.

j. The Commander, CENWK, will designate a single POC responsible for coordinating and directing all CENWK requests for assistance from the City of St. Louis.

k. CENWK will be responsible for funding requests if additional work is required at the site.

5. City of St. Louis' Responsibilities:

a. The City of St. Louis will accept informational pamphlets from CENWK regarding the potential for ordnance and explosives to exist on the Site. The City of St. Louis through its Board of Public Service will distribute the informational pamphlets to any person, company, organization, political subdivision, or other entity that plans doing any construction, digging, soil removal, or other activity that might disturb the soil on the Site. The City will include appropriate provisions in its contracts or permits issued for such work.

b. The City of St. Louis will be responsible for notification to CENWK of any changes to land use at the Site that shall include major construction and/or significant excavation type activities, including, but not limited to new buildings and underground utilities.

c. The City of St. Louis will be responsible for notification to CENWK if the Site is sold. In the event that the City of St. Louis should sell the Site identified in this MOA

as the Forest Park Area of Concern, then the terms of the sale of the Site to the new property owner shall include a legal mechanism that binds the new owner to the terms of this MOA and shall be added to this MOA as Appendix C.

d. The City of St. Louis will be responsible for providing notification to the buyer of the potential presence of military munitions at the Site and shall also notify buyer of restrictions and other requirements in regard to the presence, location, and disposition of potential military munitions.

6. St. Louis Metropolitan Police Department Responsibilities:

a. The St. Louis Metropolitan Police Department's Bomb and Arson Squad ("St. Louis Bomb Squad") will support CENWK in the capacity of emergency response if military ordnance or explosives are discovered at the Site.

b. Upon the discovery of suspected military ordnance on the Site and notification, the St. Louis Bomb Squad will respond to the location on the Site of the suspected military ordnance. The St. Louis Bomb Squad then will attempt to positively identify the suspected military ordnance as a Stokes Mortar or Livens Projector present at the site. If the St. Louis Bomb Squad is unable to positively identify the military ordnance as a Stokes Mortar or Livens Projector, then the St. Louis Bomb Squad will call the 52nd Explosive Ordnance Group (EOD) of the United States Army for that EOD organization to remove, render safe, or otherwise dispose of the suspected military ordnance or explosive. If the St. Louis Bomb Squad finds and identifies numerous military ordnance or explosives requiring extensive clearance operations, then the St. Louis Bomb Squad will abate the immediate safety threat. The St. Louis Bomb Squad then may recommend to CENWK that it identify the site as requiring full remediation.

c. The St. Louis Bomb Squad shall perform off-site disposal of the above-limited military ordnance and explosives discovered on the Site, unless in-place detonation is deemed necessary for safety reasons.

d. The St. Louis Bomb Squad will secure the area of the Site where the suspected military ordnance or explosive was discovered from all other personnel and the public.

e. The St. Louis Bomb Squad shall distribute any police reports generated as a result of a removal and/or disposal of a suspected military ordnance item to CENWK.

f. The St. Louis Bomb Squad will provide other personnel from the Saint Louis Police Department to secure any UXO items if overnight security is thought to be necessary after the Bomb Squad's team has arrived but before any removal or disposal procedure can be performed.

g. The St. Louis Bomb Squad will coordinate and respond to any news media and public inquiries concerning military ordnance removal or disposal activities at the Forest Park site and immediately notify the CENWK POC.

h. The St. Louis Bomb Squad shall designate a single Point-of-Contact (POC) responsible for coordinating and directing the St. Louis Police Department's activities with CENWK, particularly with regards to notification to CENWK of the discovery of any suspected military ordnance or explosive on the Site.

7. Funding: The City of St. Louis and the St. Louis Metropolitan Police Department have not sought reimbursement or other payment for previous military ordnance and explosives responses on the Site. Similarly, the City of St. Louis and the St. Louis

Metropolitan Police Department will not seek reimbursement or other payment for any future military ordnance and explosives response activities or disbursement of informational pamphlets under this MOA.

8. Duration and Review: The MOA may be modified or amended only upon the written, mutual agreement of both Parties. The MOA shall be effective upon signature of both Parties to the agreement. Any Party can terminate the MOA upon sixty (60) days written notice to the other Party. MDNR and EPA will be notified if the MOA is modified, amended, or terminated.

9. References:

- a. Inventory Project Report, Corps of Engineers Kansas City District, Jun 1995
- b. Archive Search Report, Corps of Engineers St. Louis District, Sep 1997
- c. Munitions and Explosives of Concern Engineering Evaluation/Cost Analysis, Corps of Engineers Omaha District, Sep 2004

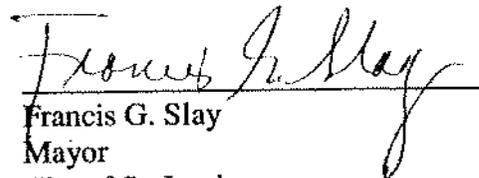


MICHAEL A. ROSSI
COL, EN

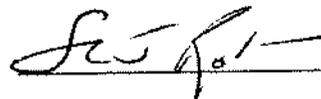
Commanding, Kansas City District

Date: 17 March 2005

The City of St. Louis By and Through



Francis G. Slay
Mayor
City of St. Louis



President
Board of Police Commissioners

LEGEND

AREA OF CONCERN

WATER FEATURES

Project borders are a digital representation prepared from Aerial 2000 Color photography.



**FOREST PARK
ST. LOUIS, MISSOURI**

**APPENDIX A
MEMORANDUM OF AGREEMENT
FOREST PARK SITE MAP**

DATE OF PHOTOGRAPHY: MARCH 1997
GRAPHIC INTENDED FOR VISUAL INSPECTION ONLY

LSH

SCALE: 1:10,000

2000 Feet

0

Appendix B

9/16/04

Former Forest Park Recreation Camp Project St. Louis, Missouri

Points of Contact (POCs)

Corps of Engineers, Kansas City District

Josephine Newton-Lund
Project Manager
CENWK-EC-EB
601 East 12th Street
Kansas City, MO 64106
Josephine.m.Newton-lund@usace.army.mil
816-983-3912

Judy Meier
Formerly Used Defense Site (FUDS) Program Manager
CENWK-PM-ED
601 East 12th Street
Kansas City, MO 64106
Judith.a.Meier@usace.army.mil
816-983-3363

City of St. Louis

Roger Allison
Board of Public Service
City Hall, Room 301
1200 Market Street
St. Louis, MO 63103
allisonr@stlouiscity.com
314-622-3535

Jeff Raffelson
Norman K. Probststein Golf Course
6141 Lagoon Drive
Forest Park
St. Louis, MO 63112
fopogoco@aol.com
314-367-1337

Dan Skillman and Anabeth Weil
St. Louis Department of Parks Recreation and Forestry
5600 Clayton Road
St. Louis, MO 63110
skillmand@stlouiscity.com and weila@stlouiscity.com
314-289-5340

Dan Esarey
St. Louis Art Museum
Forest Park
1 Fine Arts Drive
St. Louis, MO 63110
sre@slam.org
314-655-5240

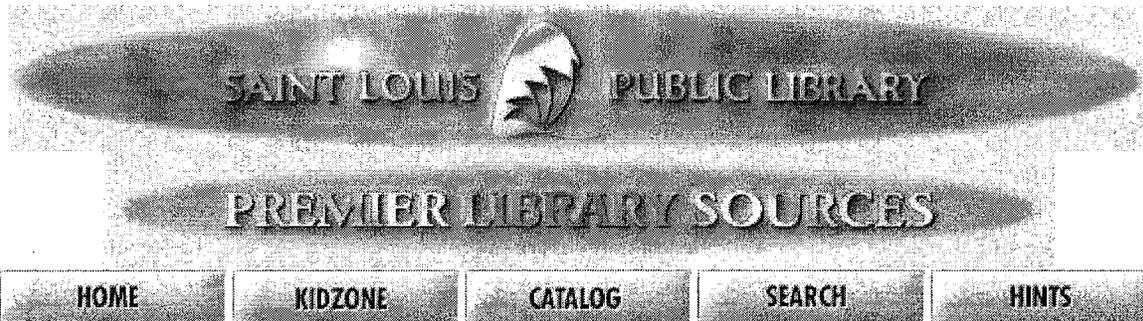
St. Louis Metropolitan Police Department

Detective Sgt. Stephen Sorocko
St. Louis Metropolitan Police Department
Bomb and Arson Squad
1200 Clark Avenue
St. Louis, MO 63103
sfsorocko@slmpd.org
314-444-5701 or 314-591-4202

Missouri Department of Natural Resources

Mark Ort
Hazardous Waste Program
P.O. Box 176
Jefferson City, MO 65102
Mark.ort@dnr.mo.org
573-751-1968

Attachment 3
City Ordinance 68329



St. Louis City Ordinance 68329

St. Louis City Ordinances have been converted to electronic format by the staff of the St. Louis Public Library. There may be maps or illustrations (graphics) that are not available in this format. This electronic version has been done for the interest and convenience of the user. These are unofficial versions and should be used as unofficial copies.

Official printed copies of St. Louis City Ordinances may be obtained from the Register's Office at the St. Louis City Hall.

FLOOR SUBSTITUTE
BOARD BILL NO. [08] 176

INTRODUCED BY ALDERMAN LYDA KREWSON

An Ordinance, recommended and approved by the Board of Public Service (the "Board of Public Service"), ratifying the execution by the Mayor of the City of St. Louis (the "City") of a Memorandum of Agreement among the U.S. Army Engineer District, Kansas City, sometimes referred to as the Corps of Engineers, Northwest Division, Kansas City ("CENWK"), the City, and the Metropolitan St. Louis Police Department regarding possible unexploded ordnance in Forest Park, and authorizing and directing the execution of such Memorandum of Agreement by the Comptroller on behalf of the City; with an emergency provision.

WHEREAS, the Defense Environmental Restoration Program (DERP), 10 U.S.C. 2701-2707, 1986 authorizes the Secretary of Defense to conduct response actions at sites which were contaminated while under the jurisdiction of the Department of Defense (DoD); and

WHEREAS, CENWK is charged with fulfilling the DoD's responsibility to clean up contaminated Formerly Used Defense Sites (FUDS) in a geographic area that includes Forest Park; and

WHEREAS, a Munitions and Explosive of Concern Engineering Evaluation/Cost Analysis Report for Forest Park (FUDS #B07M0098800) has been prepared by the U.S. Army Engineer District, Omaha at the request of CENWK and said report has identified an area of concern for unexploded ordnance as a result of former military use of Forest Park and has recommended certain institutional controls; and

WHEREAS, it is in the best interest of the public to institute the recommended institutional controls.

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF ST. LOUIS AS FOLLOWS:

SECTION ONE. The execution by the Mayor of the City of St. Louis of the Memorandum of Agreement (MOA) in the form attached hereto as Exhibit A is hereby ratified and approved.. The Comptroller is authorized and directed to execute such MOA on behalf of the City.

SECTION TWO. The Board of Public Service is hereby directed to establish rules and regulations in furtherance of the City's responsibilities under the MOA.

SECTION THREE. In the event that the Area of Concern, either in whole or in part, is subject to sale or transfer of ownership by the City, then terms of that sale or transfer of ownership shall include provisions assigning the City's responsibilities under the MOA to the new owner.

SECTION FOUR. This being an ordinance for the immediate preservation of the public peace, health or safety, it is hereby declared to be an emergency measure as defined in Article IV, Section 20 of the City Charter and shall become effective immediately upon its passage and approval by the Mayor of the City.

EXHIBIT A

MEMORANDUM OF AGREEMENT (MOA)

BETWEEN

U.S. ARMY ENGINEER DISTRICT, KANSAS CITY

AND

CITY OF ST. LOUIS, MISSOURI

FOR

THE FORMER FOREST PARK RECREATION CAMP,
ST. LOUIS, MISSOURI

1. Purpose: The Purpose of this Memorandum of Agreement (MOA) is to define the relationship, responsibilities, and general objectives under which the City of St. Louis, Missouri (City of St. Louis), and the U.S. Army Corps of Engineers, Kansas CITY District (CENWK), will provide future military ordnance and explosives response and institutional controls during any and all construction activities on the site of the Forest Park Area of Concern detailed in the map ("the Site") attached to this document as Appendix A. All of the Parties are vitally interested in ensuring that the public is informed of the potential dangers of military ordnance and explosives on the Site, and in ensuring that qualified personnel perform any necessary emergency response to the discovery of potential military ordnance and explosives at the Site in a swift and proper manner. The MOA is intended to promote coordination and cooperation between the City of St. Louis and CENWK.

2. Authority: The MOA is created in accordance with the Defense Environmental Restoration Program (DERP), 10 U.S.C. 2701-2707, 1986, which authorizes the Secretary of Defense to conduct response actions at sites which were contaminated while under the jurisdiction of the Department of Defense (DoD). Additionally, 40 C.F.R. 300.120, designates DoD to be the removal response

authority for incidents involving DoD military weapons and munitions under the jurisdiction, custody and control of DoD. The City of St. Louis is authorized to enter into the provisions of this MOA under City of St. Louis Ordinance ____ (Board Bill ____).

3. Scope: This MOA defines and establishes mutually agreed upon terms, conditions, roles, and responsibilities related to future institutional controls implemented at the Site and future military ordnance and explosive response activities at the Site to ensure the safe and proper removal and disposal of potential military ordnance and explosives, especially unexploded ordnance (UXO).

4. CENWK Responsibilities:

a. CENWK is charged with fulfilling the DoD's responsibility to clean up contaminated Formerly Used Defense Sites (FUDS) in a geographic area that includes the Site.

b. CENWK will be responsible for the overall project management of the ordnance safety oversight efforts, including all funding actions, the coordination of community relations functions, and any notification to the Missouri Department Natural Resources (MDNR), the Environmental Protection Agency (EPA), and the City of St. Louis, if it has not already been notified, of any discovery of potential military ordnance and explosives.

c. CENWK will make a minimum of one visit to the Site every year to remain actively informed of any new or different information regarding the Site.

d. CENWK will provide informational pamphlets related to the potential for military ordnance and explosives on the Site as part of the institutional controls implemented for the Site to the City of St. Louis. The pamphlets will be written

in English and Spanish to illustrate and describe military ordnance and explosives items that may be found at the Site to construction workers, maintenance workers, and the general public. The pamphlets will instruct that no one should touch what is suspected to be a military ordnance or explosive item, and a person is to call 911 if a potential military ordnance or explosive item is found. CENWK will routinely check with the City of St. Louis regarding the supply of the informational pamphlets and will provide more pamphlets when necessary.

e. CENWK will be responsible for maintaining a current Point of Contact (POC) list attached to this MOA as Appendix B.

f. CENWK will be responsible for the management and coordination of all funding actions regarding informational pamphlets.

g. CENWK will be responsible for funding requests to FUDS Program Manager at Northwestern Division (NWD).

h. CENWK will be responsible for notification to MDNR and EPA of any changes to the FUDS program that would affect the terms of this MOA.

i. CENWK will be responsible for the coordination and performance of a five year review that will include a complete survey of the Site to determine if any changes have occurred and conduct interviews with City of St. Louis officials and stakeholders in order to obtain information concerning future land use at the site. This review shall begin five years after the Action Memorandum is signed.

j. The Commander, CENWK, will designate a single POC responsible for coordinating and directing all CENWK requests for assistance from the City of St. Louis.

k. CENWK will be responsible for funding requests if additional work is required at the site.

5. City of St. Louis' Responsibilities:

a. The City of St. Louis will accept informational pamphlets from CENWK regarding the potential for ordnance and explosives to exist on the Site. The City of St. Louis through its Board of Public Service will distribute the informational pamphlets to any person, company, organization, political subdivision, or other entity that plans doing any construction, digging, soil removal, or other activity that might disturb the soil on the Site. The City will include appropriate provisions in its contracts or permits issued for such work.

b. The City of St. Louis will be responsible for notification to CENWK of any changes to land use at the Site that shall include major construction and/or significant excavation type activities, including, but not limited to new buildings and underground utilities.

c. The City of St. Louis will be responsible for notification to CENWK if the Site is sold. In the event that the City of St. Louis should sell the Site identified in this MOA as the Forest Park Area of Concern, then the terms of the sale of the Site to the new property owner shall include a legal mechanism that binds the new owner to the terms of this MOA and shall be added to this MOA as Appendix C.

d. The City of St. Louis will be responsible for providing notification to the buyer of the potential presence of military munitions at the Site and shall also notify buyer of restrictions and other requirements in regard to the presence, location, and disposition of potential military munitions.

6. St. Louis Metropolitan Police Department Responsibilities:

a. The St. Louis Metropolitan Police Department's Bomb and Arson Squad ("St. Louis Bomb Squad") will support CENWK in the capacity of emergency response if military ordnance or explosives are discovered at the Site.

b. Upon the discovery of suspected military ordnance on the Site and notification, the St. Louis Bomb Squad will respond to the location on the Site of the suspected military ordnance. The St. Louis Bomb Squad then will attempt to positively identify the suspected military ordnance as a Stokes Mortar or Livens Projector present at the site. If the St. Louis Bomb Squad is unable to positively identify the military ordnance as a Stokes Mortar or Livens Projector, then the St. Louis Bomb Squad will call the 52nd Explosive Ordnance Group (EOD) of the United States Army for that EOD organization to remove, render safe, or otherwise dispose of the suspected military ordnance or explosive. If the St. Louis Bomb Squad finds and identifies numerous military ordnance or explosives requiring extensive clearance operations, then the St. Louis Bomb Squad will abate the immediate safety threat. The St. Louis Bomb Squad then may recommend to CENWK that it identify the site as requiring full remediation.

c. The St. Louis Bomb Squad shall perform off-site disposal of the above-limited military ordnance and explosives discovered on the Site, unless in-place detonation is deemed necessary for safety reasons.

d. The St. Louis Bomb Squad will secure the area of the Site where the suspected military ordnance or explosive was discovered from all other personnel and the public.

e. The St. Louis Bomb Squad shall distribute any police reports generated as a result of a removal and/or disposal of a suspected military ordnance item to CENWK.

f. The St. Louis Bomb Squad will provide other personnel from the Saint Louis Police Department to secure any UXO items if overnight security is thought to be necessary after the Bomb Squad's team has arrived but before any removal or disposal procedure can be performed.

g. The St. Louis Bomb Squad will coordinate and respond to any news media and public inquiries concerning military ordnance removal or disposal activities at the Forest Park site and immediately notify the CENWK POC.

h. The St. Louis Bomb Squad shall designate a single Point-of-Contact (POC) responsible for coordinating and directing the St. Louis Police Department's activities with CENWK, particularly with regards to notification to CENWK of the discovery of any suspected military ordnance or explosive on the Site.

7. Funding: The City of St. Louis and the St. Louis Metropolitan Police Department have not sought reimbursement or other payment for previous military ordnance and explosives responses on the Site. Similarly, the City of St. Louis and the St. Louis Metropolitan Police Department will not seek reimbursement or other payment for any future military ordnance and explosives response activities or disbursement of informational pamphlets under this MOA.

8. Duration and Review: The MOA may be modified or amended only upon the written, mutual agreement of both Parties. The MOA shall be effective upon signature of both Parties to the agreement. Any Party can terminate the MOA upon sixty (60) days written notice to the other Party. MDNR and EPA will be notified if the MOA is modified, amended, or terminated.

9. References:

a. Inventory Project Report, Corps of Engineers Kansas City District, Jun 1995

b. Archive Search Report, Corps of Engineers St. Louis District, Sep 1997

c. Munitions and Explosives of Concern Engineering Evaluation/Cost Analysis, Corps of Engineers Omaha District, Sep 2004

MICHAEL A. ROSSI
COL, EN
Commanding, Kansas City District

Date: _____

The City of St. Louis By and Through:

Francis G. Slay
Mayor
City of St. Louis

Darlene Green
Comptroller

APPROVED AS TO FORM:

City Counselor

ATTEST:

Register

President
Board of Police Commissioners
Saint Louis Ambassadors, Inc.

Appendix B

9 /16/04

Former Forest Park Recreation Camp Project

St. Louis, Missouri

Points of Contact (POCB)

Corps of Engineers, Kansas City District

Josephine Newton-Lund
Project Manager
CENWK-EC-EE
601 East 12th Street
Kansas City, MO 64106
<mailto:64106%0d%0aJosephine.m.Newton-lund@usace.army.mil>
816-983-3912

Judy Meier
Formerly Used Defense Site (FUDS) Program Manager
CENWK-PM-ED
601 East 12th Street
Kansas City, MO 64106
<mailto:64106%0d%0aJudith.a.Meier@usace.army.mil>
816-983-3363

City of St. Louis

Roger Allison
Board of Public Service
City Hall, Room 301
1200 Market Street
St. Louis, MO 63103
<mailto:63103%0d%0aallisonr@stlouiscity.com>
314-622-3535

Jeff Raffelson
Norman K. Probststein Golf Course
6141 Lagoon Drive
Forest Park
St. Louis, MO 63112
<mailto:63112%0d%0afopogoco@aol.com>
314-367-1337

Dan Skillman and Anabeth Weil
St. Louis Department of Parks, Recreation and Forestry
5600 Clayton Road
St. Louis, MO 63110
skillmand@stlouiscity.com and weila@stlouiscity.com
314-289-5340

Dan Esarey
St. Louis Art Museum
Forest Park
1 Fine Arts Drive
St. Louis, MO 63110
<mailto:63110%0d%0asre@slam.org>
314-655-5240

St. Louis Metropolitan Police Department

Detective Sgt. Stephen Sorocko
 St. Louis Metropolitan Police Department
 Bomb and Arson Squad
 1200 Clark Avenue
 St. Louis, MO 63103
<mailto:63103%0d%0asfsorocko@slmpd.org>
 314-444-5701 or 314-591-4202

Missouri Department of Natural Resources

Mark Ort
 Hazardous Waste Program
 P.O. Box 176
 Jefferson City, MO 65102
<mailto:65102%0d%0aMark.ort@dnr.mo.org>
 573-751-1968

Legislative History				
1ST READING	REF TO COMM	COMMITTEE	COMM SUB	COMM AMEND
09/12/08				
2ND READING	FLOOR AMEND	FLOOR SUB	PERFECTN	PASSAGE
ORDINANCE	VETOED	VETO OVR	SIGNED BY MAYOR	
68329				

Return to [Top of this Document](#).
 Return to [Top of Charter, Code, and Ordinances](#).
 Return to [Search Ordinances](#).

Attachment 4
Site Location Map



LEGEND

 AREA OF CONCERN

 WATER FEATURES

Water features are a general representation digitized from April 2003 CIR photography

SCALE: 1:10,000

2000 0 2000 Feet

**FOREST PARK
St. LOUIS, MISSOURI**

**ATTACHMENT 1
ACTION MEMORANDUM
FOREST PARK SITE MAP**

DATE OF PHOTOGRAPHY: MARCH 1997
GRAPHIC INTENDED FOR VISUAL INSPECTION ONLY



Lindell Blvd

Norman K. Probst
Municipal Golf Course

History
Museum

Skinker Blvd

Grand Basin

Post
Dispatch Lake

Grand Dr.

Forest Park Blvd

Art Hill
Art Museum

Muny
Opera

Jefferson Dr.

Kingshighway Blvd.

Government Dr.

Central
Fields

Kennedy
Forest

World Fair
Payillon

Wells Dr.

Wells Dr.

St. Louis Zoo

Clayton Rd

Aviation Field

Hampton Ave.

64



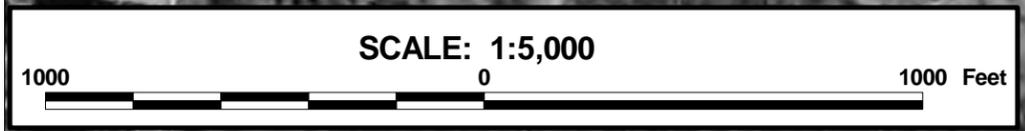
Attachment 5
Area of Concern Map



LEGEND

-  AREA OF CONCERN
-  WATER FEATURES
-  APPROXIMATE MEC LOCATION

Water features are a general representation digitized from April 2003 CIR photography



**FOREST PARK
St. LOUIS, MISSOURI**

**ATTACHMENT 2
ACTION MEMORANDUM
APPROXIMATE MEC LOCATIONS**

DATE OF PHOTOGRAPHY: MARCH 1997
GRAPHIC INTENDED FOR VISUAL INSPECTION ONLY




Attachment 6

Photo- Golf Course and Grand Basin



Hawthorn Course- Lower Nine Holes



Grand Basin

Attachment 7

Photo-Stokes Mortar



4-INCH STOKES MORTAR (WHITE PHOSPHORUS)

**UNEARTHED BY BULLDOZER OPERATOR ON
DECEMBER 5, 2001**

**FOREST PARK GOLF COURSE RENOVATION
ST. LOUIS, MISSOURI**

Attachment 8

Photo- Livens Projector



Livens Smoke Projector, found at Forest Park, St. Louis, MO. 8 July 2002.
Item was found on the northwest side of the Grand Lagoon.

Attachment 9

Educational Awareness Pamphlet



US Army Corps of Engineers
Kansas City District



A cooperative effort between the U.S. Army Corps of Engineers, Missouri Department of Natural Resources, and the City of St. Louis Police Department to protect the health and safety of the citizens of St. Louis.

What is UXO?

Unexploded ordnance (UXO) is an explosive device that failed to explode. Most UXO is from past activities associated with military training or testing. If UXO detonates, it could cause serious injury or death.

What Does UXO look Like?

UXO comes in all shapes and sizes—from small bullets to large bombs. Illustrated throughout this handout are common types of UXO found at Forest Park.



World War I soldiers preparing to fire the Stokes Mortar. This was how the Stokes Mortar was fired at Forest Park.

What Should You Do If You Find UXO?

Remember the three R's

RECOGNIZE
RETREAT
REPORT

Recognize that a UXO has been found by using the general characteristics of the pictures contained in this handout.

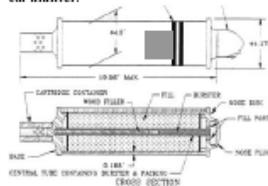
Retreat from the area.

Report the find by calling 911.

Ordnance Identification

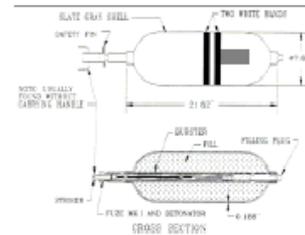
Stokes Mortars

Stokes Mortars are World War I era ordnance that have been found in Forest Park during construction of the Norman K. Probste in Golf Course. The mortar shells were used in mock battles performed by Army troops in Forest Park during the early 1900's. The mortar shells were used for hiding troop movements by producing a thick wall of smoke. These ordnance items do not look like conventional ordnance, but closely resemble a small car muffler.



Livens Projectors

Livens Projectors have been found in Forest Park during the renovation of the Emerson Grand Basin. Livens Projectors were used in mock battles performed by Army troops in Forest Park during the early 1900's. These ordnance items were used for hiding troop movements by producing a thick wall of smoke.



Questions may be referred to:

Army Corps of Engineers, Kansas City, Public Affairs Office at (816) 983-3486

or

Missouri Department of Natural Resources-Federal Facilities Section at (573) 751-3907



**US Army Corps
of Engineers**
Kansas City
District



En un esfuerzo cooperativo entre el Cuerpo de Ingenieros del Ejército de los EE.UU., el Departamento de Recursos Naturales de la ciudad de St. Louis, Missouri, y el Departamento de la Policía de la ciudad de St. Louis para proteger la salud y seguridad de los ciudadanos de St. Louis.

¿Qué es el UXO?

El UXO (unexploded ordnance/munición que no detonó) es un tipo de munición que falló en explotar. La mayoría de estos UXO están asociados con actividades de entrenamientos o pruebas militares en el pasado. Si el UXO es detonado, este podría causar serios daños o hasta la muerte.

¿Cómo es la apariencia del UXO?

El UXO vienen en diversos tamaños y formas desde balas pequeñas hasta bombas grandes. Este folleto ilustra los tipos más comunes de UXO que pueden ser encontrados en el Parque Forestal.



Soldados de la Primera Guerra Mundial listos para disparar un mortero de fuego. Esta era la forma en que los morteros de fuegos eran disparados en el Parque Forestal.

¿Qué debería hacer Usted de encontrar un UXO?

Recuerde las tres "R"
Reconocer
Retirarse
Reportar

Reconocer que usted ha encontrado un UXO basado en las características generales presentadas en las fotos contenidas en este folleto.

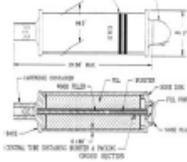
Retírese del área.

Reportar el UXO encontrado llamando al 911.

Identificación de Municiones

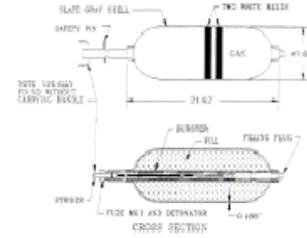
Morteros de Fuego

Los Morteros de fuego eran municiones que fueron usados durante la época de la Primera Guerra Mundial, el cual fueron encontrados en el Parque Forestal durante la construcción del parque de golf Norman K. Probst. Los morteros de fuego fueron usados en batallas simuladas por las tropas militares en el Parque Forestal durante el principio de la década del 1900. Los morteros de fuego creaban una pared gruesa de humo que ayudaban a ocultar el movimiento de las tropas. Estos materiales de artillería no se asemejan a las municiones convencionales, pero muy parecidos a un pequeño silenciador de carro.



Projectiles Vivos

Projectiles vivos han sido encontrados en el Parque Forestal durante la renovación de la gran cuenca Emerson. Projectiles vivos fueron usados en batallas simuladas por tropas militares en el Parque Forestal durante el principio de la década del 1900. Estos morteros de fuego creaban una pared gruesa de humo que ayudaban a ocultar el movimiento de tropas.



Sus preguntas pueden ser dirigidas a:

El Cuerpo de Ingenieros del Ejército de los EE.UU.
Distrito de Kansas City, Oficina de Relaciones Públicas
en la ciudad de Kansas City, Missouri al (816) 983-3486

o
El Departamento de Recursos Naturales de Missouri -
Las Facilidades de la Sección Federal al (573) 751-3907

Attachment 10

Quality Assurance Reports 2011-2014

INSPECTORS QUALITY ASSURANCE REPORT (QAR) (ER 1180-1-6)					THE QCR WILL BE ATTACHED TO OR FILED WITH THE QAR				
					REPORT NUMBER:6- 061511				
TO: Jesse Scott, MDNR . Hannah Humphrey, MDNR, and Ramona Huckstep, MDNR					DATE: June 15, 2011 Wednesday				
PROJECT: Former Forest Park Recreation Camp, St. Louis, MO Long Term Monitoring – Site Inspection and Stakeholder Interviews					CONTRACT NO: NA				
CONTRACTOR (Or hired labor): NA					WEATHER: Sunny				
PORTION OF SCHEDULED DAY SUITABLE FOR OPERATIONS					TEMPERATURE				
Structural Excavation	Borrow Excavation	Embankment	Concrete	Structure	MINIMUM 67	MAXIMUM 87			
HAS ANYTHING DEVELOPED ON THE WORK WHICH MIGHT LEAD TO A CHANGE ORDER OR FINDING OF FACT? <input type="checkbox"/> NO <input type="checkbox"/> YES (Explain)					24 HOUR PRECIPITATION				
					INCHES 0.14	ENDING .0			
NUMBER OF FEDERAL GOVERNMENT EMPLOYEES					RIVER STAGE				
SUPERVISORY	OFFICE	LAYOUT	INSPECTION 1	TOTAL 1	LABOR	FEET	N/A	TIME	N/A
NUMBER OF NON- FEDERAL GOVERNMENT EMPLOYEES				NUMBER OF SHIFTS <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3					
SUPERVISION 2	SKILLED	LABORERS	TOTAL 2	FROM 0945	TO 1400	FROM	TO	FROM	TO
Attach list of the following if applicable: (a) Major items of equipment either idle or working, and (b) Number and classification of contractor or Government personnel onsite. Note: If the contractor's Quality Control Report (QCR) contains the information it need not be repeated.									
INSPECTION PARTICIPANTS									
a. Josephine Newton-Lund, Kansas City District (PM)					e.				
b. Jesse Scott, MDNR					f.				
c. Hannah Humphrey, MDNR					g.				
d.					h.				
WORK PERFORMED TODAY (Indicate location and description of work performed. Refer to work performed by prime and/or subcontractors by letter in Table above, if applicable):									
a. Site Inspection of the Forest Park Military Munitions Areas of Concern and stakeholder interviews.					e.				
b.					f.				
c.					g.				
d.					h.				
Days of no work and reasons for same: NA									

Information on progress of work, causes for delays and extent of delays, Plant, material, etc.

Equipment List: NONE

ENG FORM 2538-2 R, May 94 (CIVIL)

Page 1 of 2

CQC INSPECTION PHASES ATTENDED AND INSTRUCTIONS GIVEN

- 1) The following stakeholders were interviewed: Roger Allison, Chief Design Engineer, Board of Public Service, City of St. Louis; Dan Skillman, Commissioner of St. Louis Parks and Recreation, Jeff Raffelson, Managing Director of Golf at the Norman K. Probstein Golf Course. Mark Macinski, Chief Facilities and Operations, St. Louis Art Museum provided an e-mail (Attachment 1) with an update of the art museum's renovations. Contact with Detective John Jones of the St. Louis Metropolitan Police Bomb and Arson Squad was attempted on June 13, 2011 and June 20, 2011. He was out of the office both times. However, the detective who answered the phone on June 13th stated that he was not aware of any military munitions incidences at Forest Park the last year. He also confirmed that SGT Detective Greg Newhouse is still the Chief of the department.
- 2) Questions presented to the stakeholders: 1) Is the stakeholder aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill? 2) Does the stakeholder anticipate any construction activities in the next twelve months at the military munitions areas of concern?
- 3) Inspection of the military munitions areas of concern. Purpose of site inspection was to observe any construction or land use changes in the areas of concern.

RESULTS OF QA INSPECTIONS AND TESTS, DEFICIENCIES OBSERVED, ACTIONS TAKEN AND CORRECTIVE ACTION OF CONTRACTOR. INCLUDE COMMENT PERTAINING TO CONTRACTORS CQC ACTIVITIES

- Observed no construction activities at the lower nine holes of the golf course or Grand Basin Area. An annual LTM inspection supplemental checklist is included in this report as Attachment 2. Photographs from the site inspection are included as Attachment 3.
- Interview with Jeff Raffelson: No knowledge of any military munitions discoveries within the last year and there are no plans for any construction work at the golf course in the next year.
- Interview with Roger Allison: No knowledge of any military munitions discoveries within the last year and no new construction activities in the munitions areas of concern are anticipated. Roger indicated there may be some road paving work in Forest Park, but that this would not impact the areas of concern. It was also noted that Roger possessed a sufficient number of educational awareness pamphlets.
- Interview with Dan Skillman: No knowledge of any military munitions discoveries within the last year and no new construction activities in the munitions areas of concern are anticipated. Dan mentioned that discussions with Forest Park Forever are expected regarding future plans at the Park, but nothing specific is known at this time.

VERBAL INSTRUCTIONS GIVEN TO CONTRACTOR. (Include names, reaction, remarks)

- NA

CONTROVERSIAL MATTERS IN DETAIL

- NONE

INFORMATION, INSTRUCTIONS OR ACTIONS TAKEN NOT COVERED IN QCR REPORT OR DISAGREEMENTS

- NONE

REMARKS (Include visitors to project and miscellaneous remarks pertinent to work)

- NONE

SAFETY (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- No safety infractions or injuries occurred during the site inspection or stakeholder interviews.

INSPECTOR'S SIGNATURE

DATE

06/20/2011

SUPERVISOR'S INITIALS

DATE

Josephine Newton-Lund

Josephine Newton-Lund, PMP

CQC INSPECTION PHASES ATTENDED AND INSTRUCTIONS GIVEN

- 1) The following stakeholders were interviewed: Roger Allison, Chief Design Engineer, Board of Public Service, City of St. Louis; Dan Skillman, Commissioner of St. Louis Parks and Recreation, Jeff Raffelson, Managing Director of Golf at the Norman K. Probstein Golf Course. Mark Macinski, Chief Facilities and Operations, St. Louis Art Museum provided an e-mail (Attachment 1) with an update of the art museum's renovations. Contact was made on June 19, 2012 with Detective Eaton of the St. Louis Metropolitan Police Bomb and Arson Squad (314-444-5367). He was not aware of any military munitions incidences at Forest Park the last year. He also confirmed that SGT Detective Greg Newhouse is still the Chief of the department.
- 2) Questions presented to the stakeholders: 1) Is the stakeholder aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill? 2) Does the stakeholder anticipate any construction activities in the next twelve months at the military munitions areas of concern?
- 3) Inspection of the military munitions areas of concern. Purpose of site inspection was to observe any construction or land use changes in the areas of concern.

RESULTS OF QA INSPECTIONS AND TESTS, DEFICIENCIES OBSERVED, ACTIONS TAKEN AND CORRECTIVE ACTION OF CONTRACTOR. INCLUDE COMMENT PERTAINING TO CONTRACTORS CQC ACTIVITIES

- Observed no construction activities at the lower nine holes of the golf course or Grand Basin Area. An annual LTM inspection supplemental checklist is included in this report as Attachment 2. Photographs from the site inspection are included as Attachment 3.
- Interview with Jeff Raffelson: No knowledge of any military munitions discoveries within the last year and there are no plans for any construction work at the golf course in the next year.
- Interview with Roger Allison: No knowledge of any military munitions discoveries within the last year and no new construction activities in the munitions areas of concern are anticipated other than road improvements, but this work would not impact the areas of concern. Roger mentioned that Forest Park Forever is spear heading \$30 million of improvements at Forest Park in the next 5 years to include bridge replacement, restroom upgrades, bike path construction, and a parking lot replacement at the Munny Outdoor Theater. This work is not expected to impact the areas of concern. It was also noted that Roger possessed a sufficient number of educational awareness pamphlets.
- Interview with Dan Skillman: No knowledge of any military munitions discoveries within the last year and no new construction activities in the munitions areas of concern are anticipated. Dan confirmed what Roger mentioned in regard to the plans by Forest Park Forever investing \$30 million in the next 5 years for improvements at the Park.

VERBAL INSTRUCTIONS GIVEN TO CONTRACTOR. (Include names, reaction, remarks)

- NA

CONTROVERSIAL MATTERS IN DETAIL

- NONE

INFORMATION, INSTRUCTIONS OR ACTIONS TAKEN NOT COVERED IN QCR REPORT OR DISAGREEMENTS

- NONE

REMARKS (Include visitors to project and miscellaneous remarks pertinent to work)

- NONE

SAFETY (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- No safety infractions or injuries occurred during the site inspection or stakeholder interviews.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	06/19/2012		
Josephine Newton-Lund, PMP			

ATTACHMENT 1

St. Louis Art Museum E-Mail

From: [Mark Macinski](#)
To: [Newton-lund, Josephine M NWK](#)
Subject: RE: Forest Park Site Inspection/Stakeholder Interviews- 30 May 2012 (UNCLASSIFIED)
Date: Tuesday, May 01, 2012 3:23:50 PM

Hello,

Our activities involving any work off our lease line , specifically Art Hill and the areas immediately adjoining, were concluded in 2011. Those involved in our expansion construction have been made aware of the presence of military munitions in Forest Park and have been instructed to notify me , acting as the POC, immediately should they locate any suspicious items or materials while working on the site.

Please let me know if you need any additional information.

Thanks!

-----Original Message-----

From: Newton-lund, Josephine M NWK
[<mailto:Josephine.M.Newton-lund@usace.army.mil>]
Sent: Tuesday, May 01, 2012 1:53 PM
To: 'Roger ALLISON'; 'Dan Skillman'; 'jrffelson@eagle golf.com'; Mark Macinski; Zamarripa, Ruben; Huckstep, Ramona
Subject: Forest Park Site Inspection/Stakeholder Interviews- 30 May 2012 (UNCLASSIFIED)

Classification: UNCLASSIFIED

Caveats: NONE

All:

Once again it's that time of year to conduct an annual inspection of the areas of military munitions concern located at Forest Park and stakeholder interviews in accordance with the 2005 Memorandum of Agreement (MOA). Also in accordance with the MOA are the following actions to be conducted concurrently with the annual site inspection:

- Conduct interviews with City of St. Louis officials in order to obtain new information concerning future land use at the site, which is identified in the MOA as the Norman K. Probststein Municipal Golf Course (lower nine holes) and the Grand Basin area.
- Ensure that the City of St. Louis possesses a sufficient number of educational awareness pamphlets that are to be distributed to construction and maintenance workers.
- Maintain a current Point of Contact (POC) list that is attached to the MOA as Appendix B.

I have tentatively selected WEDNESDAY, MAY 30, 2012, for this annual inspection. I will plan to travel to St. Louis that morning to be available mid-morning or early afternoon to meet at your convenience.

Please let me know if you are available to meet for a brief interview. I do not anticipate taking up more than 15 or 20 minutes of your time. In addition, I have attached last year's site inspection quality assurance report for your review prior to my visit.

I look forward to hearing back from all of you.

Sincerely,
Josephine

Josephine Newton-Lund, PMP
Senior Project Manager
Environmental Branch
U.S. Army Corps of Engineers, Kansas City District
601 East 12th Street/CENWK-PM-ES
Kansas City, MO 64106
816-389-3912
816-289-1420 (cell)
816-392-7936 (blackberry)

Classification: UNCLASSIFIED
Caveats: NONE

ATTACHMENT 2

Annual LTM Site Inspection Supplemental Checklist

**Annual LTM Site Inspection Supplemental Checklist to Inspectors
Quality Assurance Report (QAR)
Former Forest Park Recreation Camp MMRP Project,
St. Louis, MO
30 May 2012**

Lower Nine Hole Golf Course and Grand Basin Area	
<p>Construction Work <i>no construction was</i></p> <p>Comments: <i>observed at the lower nine hole course or Grand Basin/ Art Hill Area.</i></p>	<p><input checked="" type="checkbox"/> None</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Significant (More than 50% of the lower nine holes and/or Grand Basin Area)</p>
<p>Land Use Changes</p> <p>Comments: <i>Based on interviews w/ Jeff Raffelson, Roger Allison and Dan Skillman, no construction activities are anticipated in the next 12 months.</i></p>	<p><input checked="" type="checkbox"/> None</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Significant (More than 50% of the lower nine holes and/or Grand Basin Area)</p>
Miscellaneous Observations	
<p>Comments: <i>Discussions w/ all three City officials indicated that future construction work at Forest Park in the next 5 years would be spear-headed by the Forest Park Forever. \$30 million in the next 5 years will be targeted on road improvements, bridge replacement, restroom upgrades, bike path construction, and Nanny Theater parking lot replacement.</i></p>	

ATTACHMENT 3- PHOTOS



Photo 1- Grand Basin. St. Louis Art Museum in background.



Photo 2- Grand Basin . Looking South towards the St. Louis Art Museum



Photo 3- Norman K. Probststein Golf Course- Forest Park
Hawthorne Course- "Lower Nine". Clubhouse in background.



Photo 4- Norman K. Probststein Golf Course- Forest Park
Hawthorne Course- "Lower Nine"

CQC INSPECTION PHASES ATTENDED AND INSTRUCTIONS GIVEN

- 1) The following stakeholders were interviewed: Roger Allison, Chief Design Engineer, Board of Public Service, City of St. Louis; Eric Bothe, Project Engineer, Board of Public Service, Dan Skillman, Commissioner of St. Louis Parks and Recreation, Jeff Raffelson, Managing Director of Golf at the Norman K. Probstein Golf Course. Mark Macinski, Chief Facilities and Operations, St. Louis Art Museum provided an e-mail (Attachment 1) with an update of the art museum's renovations. Contact was made on June 28, 2013 with Detective Richard Wilderson of the St. Louis Metropolitan Police Bomb and Arson Squad (314-444-5367). He was not aware of any military munitions incidences at Forest Park the last year. He also stated that there is a new chief of the department- SGT Detective Chris Stamper.
- 2) Questions presented to the stakeholders: 1) Is the stakeholder aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill? 2) Does the stakeholder anticipate any construction activities in the next twelve months at the military munitions areas of concern?
- 3) Inspection of the military munitions areas of concern. Purpose of site inspection was to observe any construction or land use changes in the areas of concern.

RESULTS OF QA INSPECTIONS AND TESTS, DEFICIENCIES OBSERVED, ACTIONS TAKEN AND CORRECTIVE ACTION OF CONTRACTOR. INCLUDE COMMENT PERTAINING TO CONTRACTORS CQC ACTIVITIES

- Observed no construction activities at the lower nine holes of the golf course or Grand Basin Area. An annual LTM inspection supplemental checklist is included in this report as Attachment 2. Photographs from the site inspection are included as Attachment 3.
- Interview with Jeff Raffelson: No knowledge of any military munitions discoveries within the last year and there are no plans for any construction work at the golf course in the next year.
- Interview with Roger Allison and Eric Bothe: No knowledge of any military munitions discoveries within the last year and no new construction activities in the munitions areas of concern are anticipated other than the replacement of way-finding signs. A RFP is expected to go out to contractors soon with the replacement work expected next Spring 2014. The next day, Eric Bothe emailed the Sign Location Plan to USACE-KC for review. The plan has been sent to St. Louis District's ordnance safety office for review. Comments will be provided to Eric and Roger. It was also noted that Roger possessed a sufficient number of educational awareness pamphlets.
- Interview with Dan Skillman: No knowledge of any military munitions discoveries within the last year and no new construction activities in the munitions areas of concern are anticipated, except for the replacement of way-finding signs along roads in the park.

VERBAL INSTRUCTIONS GIVEN TO CONTRACTOR. *(Include names, reaction, remarks)*

- NA

CONTROVERSIAL MATTERS IN DETAIL

- NONE

INFORMATION, INSTRUCTIONS OR ACTIONS TAKEN NOT COVERED IN QCR REPORT OR DISAGREEMENTS

- NONE

REMARKS *(Include visitors to project and miscellaneous remarks pertinent to work)*

- NONE

SAFETY *(Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)*

- No safety infractions or injuries occurred during the site inspection or stakeholder interviews.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	06/28/2013		
Josephine Newton-Lund, PMP			

ATTACHMENT 1

St. Louis Art Museum E-Mail

From: [Mark Macinski](#)
To: [Newton-lund, Josephine M NWK](#)
Subject: RE: Forest Park Site Inspection/Stakeholder Interviews- 6 June 2013 (UNCLASSIFIED)
Date: Monday, May 13, 2013 9:32:06 AM

Hi Josephine,

I have meetings scheduled that day in prep for our opening. We have completed all work involving any type of excavation. We don't have plans right now for any future work which could potentially uncover any buried munitions. Let me know if you have any questions. Thanks!

-----Original Message-----

From: Newton-lund, Josephine M NWK [<mailto:Josephine.M.Newton-lund@usace.army.mil>]
Sent: Friday, May 10, 2013 9:25 AM
To: 'Roger ALLISON'; 'Dan Skillman'; 'jraffelson@eagle golf.com'; Mark Macinski; 'Huckstep, Ramona'
Subject: Forest Park Site Inspection/Stakeholder Interviews- 6 June 2013 (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

All:

It's hard to believe that almost a year has gone by since the last inspection of the areas of military munitions concern located at Forest Park and stakeholder interviews in accordance with the 2005 Memorandum of Agreement (MOA). Also in accordance with the MOA are the following actions to be conducted concurrently with the annual site inspection:

- Conduct interviews with City of St. Louis officials in order to obtain new information concerning future land use at the site, which is identified in the MOA as the Norman K. Probst Municipal Golf Course (lower nine holes) and the Grand Basin area.
- Ensure that the City of St. Louis possesses a sufficient number of educational awareness pamphlets that are to be distributed to construction and maintenance workers.
- Maintain a current Point of Contact (POC) list that is attached to the MOA as Appendix B.

I have tentatively selected THURSDAY, JUNE 6, 2013, for this annual inspection. I will plan to travel to St. Louis that morning to be available mid-morning or early afternoon to meet at your convenience.

Please let me know if you are available to meet for a brief interview. I do not anticipate taking up more than 15 or 20 minutes of your time. If that day doesn't work out for you, as an alternative, I can conduct interviews over the phone. In addition, I have attached last year's site inspection quality assurance report for your review prior to my visit.

I look forward to hearing back from all of you.

Sincerely,
Josephine

Josephine Newton-Lund, PMP
Senior Project Manager
Environmental Branch
U.S. Army Corps of Engineers, Kansas City District
601 East 12th Street/CENWK-PM-ES
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816-389-3912
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816-392-7936 (blackberry)

ATTACHMENT 2

Annual LTM Site Inspection Supplemental Checklist

**Annual LTM Site Inspection Supplemental Checklist to Inspectors
Quality Assurance Report (QAR)
Former Forest Park Recreation Camp MMRP Project,
St. Louis, MO
6 June 2013**

Lower Nine Hole Golf Course and Grand Basin Area	
<p>Construction Work</p> <p>Comments: <i>no construction was observed at the lower nine hole course or the Grand Basin Area.</i></p>	<p><input checked="" type="checkbox"/> None</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Significant (More than 50% of the lower nine holes and/or Grand Basin Area)</p>
<p>Land Use Changes</p> <p>Comments: <i>Based on interviews with Jeff Raffelson, Roger Allison, Eric Bothe, and Dan Skillman, no significant construction activities are planned in the next 12 months, except for sign replacement.</i></p>	<p><input checked="" type="checkbox"/> None</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Significant (More than 50% of the lower nine holes and/or Grand Basin Area)</p>
Miscellaneous Observations	
<p>Comments: <i>City officials stated that a RFP for the replacement of way-finding signs is anticipated to go out in the next few months for work to occur next Spring 2014. A copy of the sign location Plan was sent to Josephine Newton ^{by Eric Bothe} on 6/7/13. St. Louis District Ordinance Safety Staff are reviewing.</i></p>	

ATTACHMENT 3-PHOTOS



Photo 1- Grand Basin



Photo 2- Grand Basin with St. Louis Art Museum in Background



Photo 3- Norman K. Probststein Golf Course- Forest Park
Hawthorne Course- "Lower Nine"



Photo 4- Norman K. Probststein Golf Course- Forest Park
Hawthorne Course- "Lower Nine"

CQC INSPECTION PHASES ATTENDED AND INSTRUCTIONS GIVEN

- 1) The following stakeholders were interviewed: Eric Bothe, Project Engineer, Board of Public Service (On 7/15/14), Dan Skillman, Commissioner of St. Louis Parks and Recreation, and Mark Macinski, Chief Facilities and Operations, St. Louis Art Museum provided an e-mail (Attachment 1) with an update of the art museum's construction activities. Contact was made on July 18, 2014 with Detective Valenti of the St. Louis Metropolitan Police Bomb and Arson Squad (314-444-5367). He was not aware of any military munitions incidences at Forest Park the last year. He also stated that the chief of the department is still SGT Detective Chris Stamper.
- 2) Questions presented to the stakeholders: 1) Is the stakeholder aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill? 2) Does the stakeholder anticipate any construction activities in the next twelve months at the military munitions areas of concern?
- 3) Inspection of the military munitions areas of concern. Purpose of site inspection was to observe any construction or land use changes in the areas of concern.

RESULTS OF QA INSPECTIONS AND TESTS, DEFICIENCIES OBSERVED, ACTIONS TAKEN AND CORRECTIVE ACTION OF CONTRACTOR. INCLUDE COMMENT PERTAINING TO CONTRACTORS CQC ACTIVITIES

- Observed no construction activities at the lower nine holes of the golf course or Grand Basin Area. An annual LTM inspection supplemental checklist is included in this report as Attachment 2. Photographs from the site inspection are included as Attachment 3.
- Interview with Eric Bothe: No knowledge of any military munitions discoveries within the last year and no new construction activities in the munitions areas of concern are anticipated other than the installation of way-finding signs. Sign installation is scheduled to begin the week of 21 July 2014. David Rose, ordnance safety specialist for St. Louis District, has been providing education awareness support during the City's procurement process and will conduct an ordnance safety briefing with the sign installation contractor. Also, additional educational awareness pamphlets were provided to the City.
- Interview with Jeff Raffelson was not conducted as he was on vacation. Questions regarding the golf course area of concern were presented to Dan Skillman later in the day.
- Interview with Dan Skillman: No knowledge of any military munitions discoveries within the last year. However, he was recently presented with a proposed plan by the Metropolitan St. Louis Sewer District (MSD) to enlarge a hatch in the northwest corner of the lower nine-hole golf course. See Attachment 4. A larger hatch will allow MSD personnel easier access to a storm water tunnel that runs along Skinker Blvd. The proposed hatch replacement will also involve reinforcement of a walking path to support MSD construction equipment. The project could begin as early as next year. Education awareness support, such as providing military munitions awareness language for City specifications and also conducting safety briefings by David Rose of St. Louis District will be planned.

VERBAL INSTRUCTIONS GIVEN TO CONTRACTOR. (Include names, reaction, remarks)

- NA

CONTROVERSIAL MATTERS IN DETAIL

- NONE

INFORMATION, INSTRUCTIONS OR ACTIONS TAKEN NOT COVERED IN QCR REPORT OR DISAGREEMENTS

- NONE

REMARKS (Include visitors to project and miscellaneous remarks pertinent to work)

- NONE

SAFETY (Include any infractions of approved safety plan, safety manual or instructions from Government personnel. Specify corrective action taken.)

- No safety infractions or injuries occurred during the site inspection or stakeholder interviews.

INSPECTOR'S SIGNATURE	DATE	SUPERVISOR'S INITIALS	DATE
	07/18/2014		
Josephine Newton-Lund, PMP			

ATTACHMENT 1

St. Louis Art Museum E-Mail

From: [Mark Macinski](#)
To: [Newton-lund, Josephine M NWK](#)
Subject: RE: [EXTERNAL] Re: Forest Park Site Inspection/Stakeholder Interviews- 15 JULY or 16 JULY (UNCLASSIFIED)
Date: Thursday, June 19, 2014 12:08:56 PM

Hi Josephine,

I won't be available during your visit days and hope you will consider this communication as acknowledgement that we understand the potential presence of munitions in Forest Park and know the protocol should any be located during any excavation work.

The Museum Expansion project was completed last year and we have no excavations planned off our lease line at this time which would involve Art Hill or the immediate surrounding areas. We do have a project underway at the rear (South) of the Museum for a sculpture garden. This project involves shallow excavations in areas that were previously exposed as part of the expansion project, to deeper depths than required for the current project, so we feel confident that the risk of finding underground obstructions or munitions is minimal.

Please let me know if you have any questions regarding this matter. Thank You!

-----Original Message-----

From: Newton-lund, Josephine M NWK [<mailto:Josephine.M.Newton-lund@usace.army.mil>]
Sent: Thursday, June 19, 2014 10:59 AM
To: Bothe, Eric
Cc: AllisonR@stlouis-mo.gov; Dan Skillman; Huckstep, Ramona; Jeffry Raffelson; Mark Macinski; Thomas Huelman
Subject: RE: [EXTERNAL] Re: Forest Park Site Inspection/Stakeholder Interviews- 15 JULY or 16 JULY (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Eric,

Would 3:00PM or 3:30PM work for you on Tuesday, July 15? Also, thank you for including Tom Huelman on this email. I will bring along the attached awareness pamphlet, which contains English text on the front and Spanish on the back.

Josephine

Josephine Newton-Lund, PMP
Senior Project Manager
Environmental Branch
U.S. Army Corps of Engineers, Kansas City District
601 East 12th Street/CENWK-PM-ES
Kansas City, MO 64106
816-389-3912
816-289-1420 (cell)
816-392-7936 (blackberry)

-----Original Message-----

From: Bothe, Eric [<mailto:bothee@stlouis-mo.gov>]
Sent: Wednesday, June 18, 2014 5:32 PM
To: Newton-lund, Josephine M NWK
Cc: AllisonR@stlouis-mo.gov; Dan Skillman; Huckstep, Ramona; Jeffry Raffelson; mmacinski@slam.org; Thomas Huelman
Subject: [EXTERNAL] Re: Forest Park Site Inspection/Stakeholder Interviews- 15 JULY or 16 JULY (UNCLASSIFIED)

Hello Josephine:

Tuesday, July 15th would probably be the best for me as I have Wednesday morning blocked out for a meeting. The Park Wide Signage project should be in full swing by then so you may want to bring additional awareness pamphlets. I've copied Tom Huelman with our Construction Division on this email. He is overseeing the signage installation and might have a better grasp of our pamphlet needs.

Thanks,

Eric Bothe, P.E., LEED AP
Project Manager, Design Division
Board of Public Service
Tucker and Market
Room 301 City Hall
Saint Louis, MO 63103
(314) 641-8379

On Wed, Jun 18, 2014 at 1:29 PM, Newton-lund, Josephine M NWK <Josephine.M.Newton-lund@usace.army.mil> wrote:

Classification: UNCLASSIFIED
Caveats: NONE

All:

A year has gone by since the last inspection of the areas of military munitions concern located at Forest Park and stakeholder interviews in accordance with the 2005 Memorandum of Agreement (MOA). Also in accordance with the MOA are the following actions to be conducted concurrently with the annual site inspection:

- Conduct interviews with City of St. Louis officials in order to obtain new information concerning future land use at the site, which is identified in the MOA as the Norman K. Probststein Municipal Golf Course (lower nine holes) and the Grand Basin area.

- Ensure that the City of St. Louis possesses a sufficient number of educational awareness pamphlets that are to be distributed to construction and maintenance workers.

- Maintain a current Point of Contact (POC) list that is attached to the MOA as Appendix B.

I have tentatively selected two dates: TUESDAY, JULY 15, 2014 or WEDNESDAY, JULY 16, 2014, for this annual inspection. I will plan to travel to St. Louis the evening before to be available early to mid-morning to meet at your convenience.

Please let me know which day will work for you to meet for a brief interview. If either day doesn't work out for you, as an alternative, I can conduct interviews over the phone. In addition, I have attached last year's site inspection quality assurance report for your review prior to my visit.

I look forward to hearing back from all of you.

Sincerely,
Josephine

Josephine Newton-Lund, PMP
Senior Project Manager
Environmental Branch
U.S. Army Corps of Engineers, Kansas City District
601 East 12th Street/CENWK-PM-ES
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816-392-7936 (blackberry)

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

ATTACHMENT 2

Annual LTM Site Inspection Supplemental Checklist

Annual LTM Site Inspection Supplemental Checklist to Inspectors
Quality Assurance Report (QAR)
Former Forest Park Recreation Camp MMRP Project,
St. Louis, MO
15-16 July 2014

Lower Nine Hole Golf Course and Grand Basin Area	
<p>Construction Work</p> <p>Comments: <i>No construction was observed at the lower nine hole golf course or Grand Basin Area.</i></p>	<p><input checked="" type="checkbox"/> None</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Significant (More than 50% of the lower nine holes and/or Grand Basin Area)</p>
<p>Land Use Changes</p> <p>Comments: <i>See below comments.</i></p>	<p><input checked="" type="checkbox"/> None</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Significant (More than 50% of the lower nine holes and/or Grand Basin Area)</p>
Miscellaneous Observations	
<p>Comments: <i>Based on interviews with Eric Bothe and Dan Skillman (Parks+Rec), way-finding signs are scheduled to be installed beginning the week of July 21. David Rose, St. Louis District ordnance safety specialist, will conduct a safety briefing before work begins. Over 200 signs are being installed throughout the park. Work is expected to be completed in September. Also, possibly in the next year, MSD will be planning a construction project on the NW corner of the lower nine golf course. The storm water work involves the enlargement of a hatch that will allow MSD workers easier access to a storm water tunnel that runs along Skinner Blvd.</i></p>	

ATTACHMENT 3-PHOTOS



Photo 1- Grand Basin with St. Louis Art Museum in Background



Photo 2- Norman K. Probststein Golf Course- Forest Park
Hawthorne Course- "Lower Nine"



Photo 3- Norman K. Probstein Golf Course- Forest Park
Hawthorne Course- "Lower Nine"

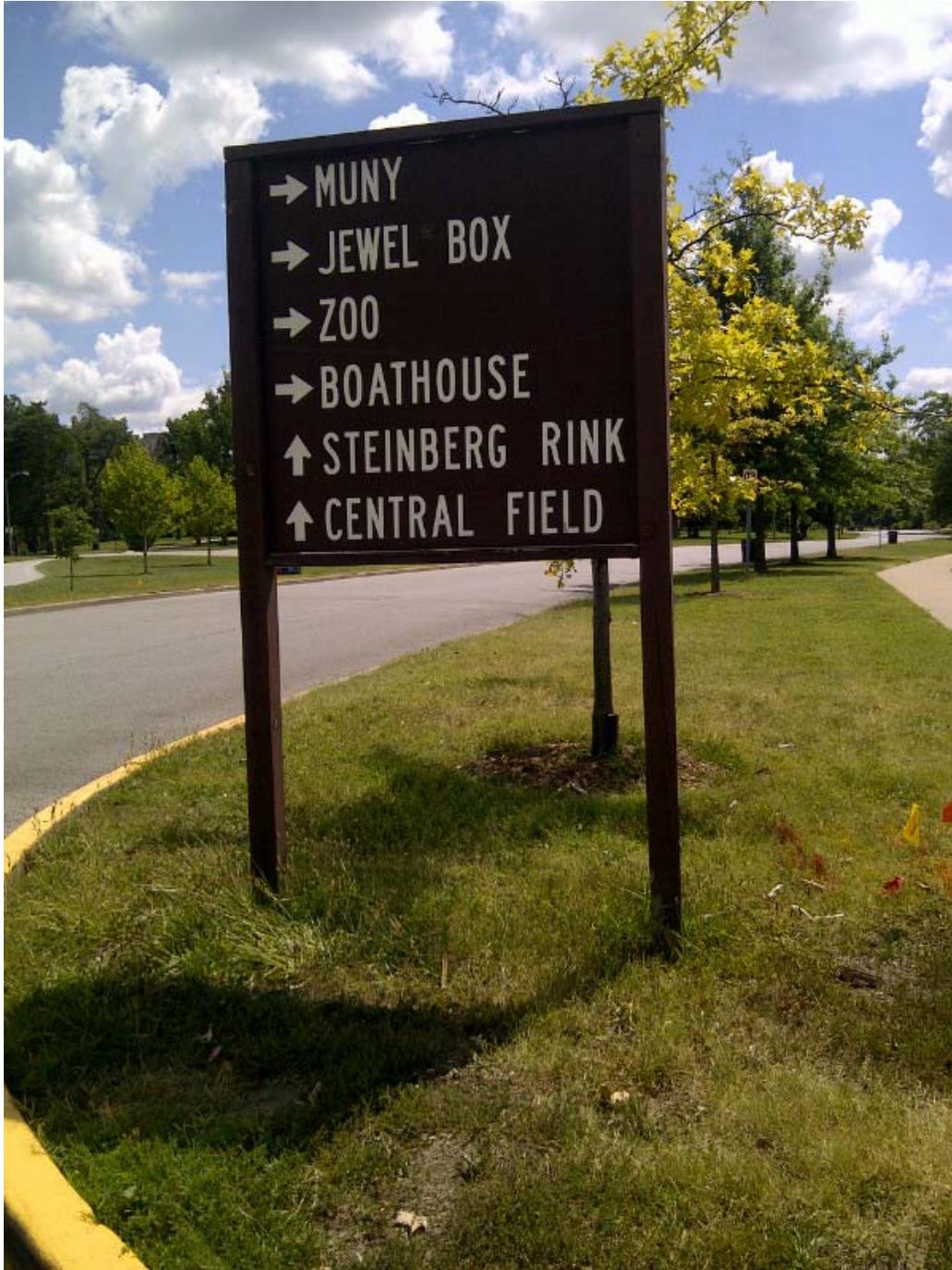


Photo 4- Existing way-finding sign that will be replaced with newer sign

ATTACHMENT 4

Forest Park Location Map of Proposed MSD Hatch
Enlargement Project

FOREST PARK * SAINT LOUIS * MISSOURI



Attachment 11

Five Year Recurring Review Public Notice

PUBLIC NOTICE

A SECOND FIVE YEAR RECURRING REVIEW IS BEING CONDUCTED AT THE FORMER FOREST PARK RECREATION CAMP SITE, ST. LOUIS, MISSOURI

The U.S. Army Corps of Engineers, Kansas City District (USACE) is conducting the second five year Recurring Review for the former Forest Park Recreation Camp Military Munitions Response Program Site. The former Forest Park Recreation Camp, also referred to as the Forest Park Area of Concern (AOC) was established in 1942 as a recreation camp for soldiers. However, as early as 1917, military demonstrations were held at Forest Park which included an Army tank demonstration, a military parade and Army troops from Jefferson Barracks performing daily mock World War I (WWI) battles. These activities resulted in the burial of unexploded ordnance (UXO) consisting of WWI-era mortar shells and projectiles in a portion of Forest Park. The Forest Park AOC includes the lower nine holes of the Norman K. Probst Municipal Golf Course, the Grand Basin and the Art Hill area. The selected response action for the Site, which was implemented in 2004, includes the distribution of education awareness materials, a Memorandum of Agreement (MOA) between the City of St. Louis and the USACE and the passage of city ordinance 88329. The ordinance binds the City of St. Louis to the provisions of the MOA. The response action is intended to promote military munitions awareness and assist in the identification of munitions for construction personnel working in the Forest Park AOC.

What is the purpose of a five-year review?

The purpose of a Recurring Review is to determine if the response action is protecting human health and the environment. The Recurring Review Report documents the methods, findings, conclusions and any recommendations based on a records review, site inspection and interviews with stakeholders.

Why is a five-year review being done for this site?

Conducting this Recurring Review is required because military munitions may remain buried on site thereby preventing unlimited use and unrestricted exposure. USACE will continue to conduct reviews and issue a report every five years or as needed.

The Administrative Record, which contains all the relevant cleanup documents for this site, is available at the following location:

St. Louis Central Public Library
1301 Olive Street
St. Louis, Missouri 63103
314-241-2288

(Copies of documents may be transferred to other St. Louis Public Library branches throughout the city upon request.)

Relevant cleanup documents pertaining to this site may also be viewed at: <http://www.nwk.usace.army.mil/Missions/Environmental/EnvironmentalProjects/FormerForestParkRecreationCamp.aspx>

Questions or requests for information can be submitted to:

Josephine Newton-Lund, PMP
Senior Project Manager
Josephine.M.Newton-Lund@usace.army.mil
Public Affairs Office
(816) 389-3072

ST. LOUIS POST-DISPATCH

St. Charles County and Madison County Suburban Journals

AFFIDAVIT OF PUBLICATION

U.S. Army Corps of Engineers
Attn: Advertising Affidavits
601 East 12th St.
CENWK-PM-ES
Kansas City, MO 64106

Ad #: 1980766-00

THE ATTACHED ADVERTISEMENT WAS PUBLISHED
In the St. Louis Post-Dispatch and online STLToday.com on the following dates:
January 18, 2015

Cynthia L. Alderton



COMPANY REPRESENTATIVE

SWORN TO AND SUBSCRIBED BEFORE ME
THIS January 18, 2015.


NOTARY PUBLIC, CITY OF ST. LOUIS

BETH A. BRADLEY
Notary Public, Notary Seal
State of Missouri
St. Louis City
Commission # 14991746
My Commission Expires July 01, 2018

Attachment 12
List of Documents

List of Documents Reviewed Former Forest Park Recreation Camp

Five Year Review Report for former Forest Park Recreation Camp, U.S. Army Corps of Engineers, Kansas City District, 2010

St. Louis City Ordinance 68329, St. Louis, Missouri, 2010

Quality Assurance Reports for the Former Forest Park Recreation Camp, U.S. Army Corps of Engineers, Kansas City District, 2011-2014

Memorandum of Agreement (MOA) between USACE and City of St. Louis, former Forest Park Recreation Camp, 2005

Action Memorandum for the former Forest Park Recreation Camp, 2004

Engineering Evaluation/Cost Analysis (EE/CA) for the former Forest Park Recreation Camp, 2004

Archives Search Report (ASR) for the former Forest Park Recreation Camp, 1997

Inventory Project Report (INPR) for the former Forest Park Recreation Camp, 1995

Attachment 13
Interview Records

Five-Year Recurring Review Interview Record

Site:	Former Forest Park Recreation Camp, St. Louis, MO	FUDS Site No:	B07MO098801
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Interview Type: Face-to-Face
 Location of Visit: Golf Course Club House
 Date: 4/9/15
 Time: 12:40PM

Interviewers

Name	Title	Organization
Josephine Newton-Lund	Senior Project Manager	USACE-KC

Interviewees

Name	Organization	Title	Telephone	Email
Jeff Raffelson	Eagle Golf- Norman K. Probstain Golf Course	Director of Operations	314-367-1337, ext 225	jraffelson@eaglegolf.com

Summary of Conversation

1) What is your overall impression of the project?
Very successful.

2) Are you aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill, the past 12 months?
No

3) Are there any community concerns that you are aware of regarding long-term management of the Forest Park site?
No

4) Are routine maintenance workers informed of the buried unexploded ordnance (UXO) at the Forest Park site?
Yes, every year the golf course superintendent, Chad Carpenter, trains/briefs maintenance workers of the potential for buried UXO.

5) Have any problems or difficulties been encountered during long-term management activities at the Forest Park site?
No

6) Is the response action at the Forest Park site, which consists of the distribution of educational awareness materials to St. Louis City officials, a Memorandum of Agreement (MOA) between the City of St. Louis and the Corps, and passage of a city ordinance which binds the City of St. Louis to the provisions of the MOA, functioning as expected?
Yes

7) Do you anticipate any construction activities in the next 12 months at any of the military munitions areas of concern, which include the lower nine holes of the Norman K. Probstain Golf Course, the Grand Basin area, and Art Hill?
Upcoming construction activities include renovation of the sand bunkers this summer by Sellenriek Grading and the Metropolitan Sewer District (MSD) plans to reinforce the walking path near Hole 3 of the Hawthorne Course (corner of Skinker and Lindell). Reinforcement of the walking path is in preparation of sewer work that will involve the enlargement of a hatch to allow MSD personnel easier access to a storm water tunnel that runs along Skinker Blvd.

8) Are there any comments, suggestions, or recommendations regarding the site's long-term management activities?
No. The annual visits by USACE are very helpful.

Additional Site-Specific Questions

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Five-Year Recurring Review Interview Record					
Site:	Former Forest Park Recreation Camp, St. Louis, MO			FUDS Site No:	B07MO098801
Interview Type: Face-to-Face Location of Visit: Parks Division Office Date: 4/9/15 Time: 1:35PM					
Interviewers					
Name			Title	Organization	
Josephine Newton-Lund			Senior Project Manager	USACE-KC	
Interviewees					
Name	Organization	Title	Telephone	Email	
Dan Skillman	City of St. Louis Parks Division	Commissioner	314-289-5340	SkillmanD@stlouis-mo.gov	
Summary of Conversation					
1) What is your overall impression of the project? Great. Annual visits are beneficial.					
2) Are you aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill, the past 12 months? No					
3) Are there any community concerns that you are aware of regarding long-term management of the Forest Park site? No					
4) Are routine maintenance workers informed of the buried unexploded ordnance (UXO) at the Forest Park site? Yes					
5) Have any problems or difficulties been encountered during long-term management activities at the Forest Park site? No					
6) Is the response action at the Forest Park site, which consists of the distribution of educational awareness materials to St. Louis City officials, a Memorandum of Agreement (MOA) between the City of St. Louis and the Corps, and passage of a city ordinance which binds the City of St. Louis to the provisions of the MOA, functioning as expected? Yes					
7) Do you anticipate any construction activities in the next 12 months at any of the military munitions areas of concern, which include the lower nine holes of the Norman K. Probststein Golf Course, the Grand Basin area, and Art Hill? Yes. MSD plans to remove and replace the gravel walking path near Hole 3 of the Hawthorn Course later this year to accommodate heavy construction equipment that will enlarge the sewer hatch at the corner of Skinker and Lindell. The design for the hatch enlargement has not been finalized; however. In 2016, there are plans to install remote valves at pond inlets along Lagoon Drive. Additionally, Forest Park Forever has plans to construct an entry sign at Lagoon Drive and Skinker Blvd.					
8) Are there any comments, suggestions, or recommendations regarding the site's long-term management activities? No					
Additional Site-Specific Questions					

Five-Year Recurring Review Interview Record

Site:	Former Forest Park Recreation Camp, St. Louis, MO	FUDS Site No:	B07MO098801
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Interview Type: Face-to-Face
 Location of Visit: Board of Public Service Office
 Date: 4/9/15
 Time: 2:30PM

Interviewers

Name	Title	Organization
Josephine Newton-Lund	Senior Project Manager	USACE-KC

Interviewees

Name	Organization	Title	Telephone	Email
Eric Bothe	City of St. Louis Board of Public Service	Project Manager	314-641-8379	bothee@stlouis-mo.gov

Summary of Conversation

1) What is your overall impression of the project?
The project is fairly well managed.

2) Are you aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill, the past 12 months?
No

3) Are there any community concerns that you are aware of regarding long-term management of the Forest Park site?
No

4) Are routine maintenance workers informed of the buried unexploded ordnance (UXO) at the Forest Park site?
Yes

5) Have any problems or difficulties been encountered during long-term management activities at the Forest Park site?
Not to my knowledge.

6) Is the response action at the Forest Park site, which consists of the distribution of educational awareness materials to St. Louis City officials, a Memorandum of Agreement (MOA) between the City of St. Louis and the Corps, and passage of a city ordinance which binds the City of St. Louis to the provisions of the MOA, functioning as expected?
I believe so.

7) Do you anticipate any construction activities in the next 12 months at any of the military munitions areas of concern, which include the lower nine holes of the Norman K. Probstain Golf Course, the Grand Basin area, and Art Hill?
Yes. The MSD hatch enlargement work is planned, but not sure of a schedule. A MSD point of contact will be provided to the Corps.

8) Are there any comments, suggestions, or recommendations regarding the site's long-term management activities?
No. Keep it up.

Additional Site-Specific Questions

Can City Ordinance 68329, which binds the City of St. Louis to the provisions found in the Memorandum of Agreement (MOA), be amended with an updated POC list?
City Alderwoman, Lyda Krewson will be contacted by Eric Bothe to see if the ordinance can be amended or whether a new ordinance will need to be drafted and passed by the Board of Aldermen.

Five-Year Recurring Review Interview Record				
Site:	Former Forest Park Recreation Camp, St. Louis, MO			FUDS Site No: B07MO098801
Interview Type: E-Mail				
Location of Visit:				
Date: April 13, 2015				
Time:				
Interviewers				
Name	Title		Organization	
Josephine Newton-Lund	Senior Project Manager		USACE-KC	
Interviewees				
Name	Organization	Title	Telephone	Email
Kurt Bruemmer	MDNR	Project Manager	(573) 522-3353	kurt.bruemmer@dnr.mo.gov
Summary of Conversation				
<p>1) What is your overall impression of the project? <i>The Forest Park project has been a successful project in that the remedial efforts thus far, ensuring the safety of the parks visitors, has not affected the parks normal operation.</i></p> <p>2) Are you aware of any military munitions discoveries at any of the Forest Park military munitions areas of concern, which are the lower nine holes of the golf course, the Grand Basin area and Art Hill, the past 12 months? <i>The Department is unaware of any such discoveries.</i></p> <p>3) Are there any community concerns that you are aware of regarding long-term management of the Forest Park site? <i>The Department is unaware of any community concerns.</i></p> <p>4) Are routine maintenance workers informed of the buried unexploded ordnance (UXO) at the Forest Park site? <i>After previous interviews with other stakeholders of the project, conducted on April 9, 2015, it is evident that routine maintenance workers are properly informed of the possibility of buried unexploded ordnance at Forest Park.</i></p> <p>5) Have any problems or difficulties been encountered during long-term management activities at the Forest Park site? <i>No. The USACE does a fine job as the lead agency to ensure the LTM activities are being implemented.</i></p> <p>6) Is the response action at the Forest Park site, which consists of the distribution of educational awareness materials to St. Louis City officials, a Memorandum of Agreement (MOA) between the City of St. Louis and the Corps, and passage of a city ordinance which binds the City of St. Louis to the provisions of the MOA, functioning as expected? <i>The response action is functioning as expected with the understanding that the USACE is returning to the remedial process with the site to obtain a final remedy.</i></p> <p>7) Do you anticipate any construction activities in the next 12 months at any of the military munitions areas of concern, which include the lower nine holes of the Norman K. Probststein Golf Course, the Grand Basin area, and Art Hill? <i>After previous interviews with other stakeholders of the project, conducted on April 9, 2015, it appears a few projects are intended to take place in the near future near the area of concern – i.e entrance signs, installation of valves on piping, and MSD man-hole sewer project.</i></p> <p>8) Are there any comments, suggestions, or recommendations regarding the site's long-term management activities? <i>The Department agrees with the USACE in returning to the remedial process with the site to obtain a final remedy.</i></p>				
Additional Site-Specific Questions				

Attachment 14

Photo- New Way-Finding Sign



Attachment 15
Updated POC List

Appendix B

4/14/15

Former Forest Park Recreation Camp Project St. Louis, Missouri

Points of Contact (POCs)

Corps of Engineers, Kansas City District

601 East 12th Street
Kansas City, MO 64106
DLL-NWK-PA@usace.army.mil
816-389-3486

City of St. Louis

Board of Public Service
City Hall, Room 301
1200 Market Street
St. Louis, MO 63103

314-622-3535

Norman K. Probststein Golf Course
6141 Lagoon Drive
Forest Park
St. Louis, MO 63112

314-367-1337

St. Louis Department of Parks Recreation and Forestry
5600 Clayton Road
St. Louis, MO 63110

314-289-5300

St. Louis Art Museum
Forest Park
1 Fine Arts Drive
St. Louis, MO 63110

314-721-0072

St. Louis Metropolitan Police Department

St. Louis Metropolitan Police Department
Bomb and Arson Squad
1915 Olive Street
St. Louis, MO 63103

314-444-5701

Missouri Department of Natural Resources

Hazardous Waste Program
Federal Facilities Section
P.O. Box 176
Jefferson City, MO 65102

573-751-3907