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**Final Conceptual Site Model
Tourtelot Cleanup Project
Benicia, California**

June 2004

Lead Agency:

California Environmental Protection Agency
Department of Toxic Substances Control
Sacramento, California

Prepared By:

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June 23, 2004

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Re. Transmittal of Final Conceptual Site Model, Tourtelot Cleanup Project, Benicia California

Dear Rizgar:

Enclosed is the Final Conceptual Site Model for the Tourtelot Cleanup Project Site in Benicia, California. The Final Conceptual Site Model (CSM) has been prepared by Northgate Environmental Management, Inc. on behalf of Pacific Bay Homes, LLC. The CSM is being submitted in response to the Final Remedial Action Plan approved by the Department of Toxic Substances Control on January 29, 2002.

The CSM is Addendum No. 4 of Section 4 of the Final Technical Memorandum and Implementation Report, dated June 18, 2004. If you have any questions, please call me at (510) 839-0089.

Sincerely,


Ted Splitter, P.E.,
Project Coordinator



Enclosure

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1.0 INTRODUCTION

This Conceptual Site Model (CSM) has been prepared to assess the distribution of Ordnance and Explosives items and materials on the Tourtelot Cleanup Project Site in Benicia, California. The CSM has been prepared in conformance with the guidelines provided in the U.S. Army Corps of Engineers (USACE) EM 1110-1-1200 dated February 3, 2003 entitled *Conceptual Site Models for Ordnance and Explosives (OE) and Hazardous, Toxics, and Radioactive Waste (HTRW) Projects*. In developing the discussions and conclusions put forth in this CSM, data collected during the ordnance and explosives (OE) clearance action, chemical cleanup activities, and review of numerous historical documents pertaining to previous site uses and conditions was used. The documents used as a basis for the historical and conditions sections of this CSM are listed in Section 6.0 (References).

1.1 OE Materials

The three categories of OE materials (generally referred to as OE in this document) are OE Energetic, OE Like, and OE Scrap. In consistency with the *Ordnance and Explosives Remedial Design Document* (OE RDD; Earth Tech 2002a) for the Tourtelot Cleanup Project, and for the purposes of this CSM, the following definitions for the three types of OE are provided.

- **OE Energetic** is defined as ammunition, ammunition components, or explosive ordnance items containing detectable amounts of explosives or other energetic materials that have been abandoned, expelled from demolition pits or burning pads, buried, lost or discarded; or soils with a 10 percent or greater content of explosives. No OE items have been recovered on the Project Site displaying evidence of having been fired, armed, or deployed.
- **OE Like** items are items that have the physical appearance of an OE Energetic item but do not contain explosives or other energetic materials. From a geophysical perspective, OE Like items are defined as items with a geophysical signature similar to a 37 millimeter (mm) projectile or larger OE item.
- **OE Scrap** is a byproduct generated during the functioning, disposal and/or demilitarization of OE Energetic and OE Like items and includes fragments and components from those items that have been determined to be free of energetic material. OE Scrap does not pose a safety risk



1.2 OE Cleanup

During the OE cleanup portion of the remediation work, the Project Site, with the exception of portions of the South Valley Wetlands and the Ridge Area, have been surface cleared, mapped twice, and intrusively investigated twice (Phase 1 and Phase 2 Point Cleared.) Existing soil stockpiles were cleared of potential OE through sifting or spread-and-scan methodologies and either transported off-site for disposal (chemically-impacted soils) or used as fill in the North Valley. Previously placed fill soils in the North Valley and in Unit D-1 were excavated, cleared of potential OE using the same methodologies as noted above, and placed as fill in the bottom of the North Valley. After two point clearances, soils in parts of the South Valley were considered to still potentially contain OE. These soils were mechanically excavated and transported to the Ridge Area where they were sifted to remove any potential OE. The areas where these soils were removed from were then confirmation scanned and point cleared. Known and suspected demolition sites have been excavated to bedrock and have been confirmation scanned to verify removal of OE. Quality Control (QC) and Third Party Quality Assurance (QA) are currently completing their work to assess if the clearance complies with the OE RDD (Earth Tech, 2002a). The final completion certification will be included in the Technical Memorandum and Implementation Report.

Chemically-impacted soils that contained concentrations of chemicals exceeding the cleanup goals established in the Final Remedial Investigation/Feasibility Study (RI/FS; Earth Tech, 2001) have been excavated and cleared of OE and been removed from the Project Site. Chemically-impacted areas have been confirmation tested to verify removal of chemically-affected soils.

1.3 Previous CSMs

Three previous preliminary draft CSMs were prepared and issued. These documents addressed the North Valley (Northgate, July 2003), the South Valley (Northgate, July 14, 2003), and the Ridge and South Valley (Northgate September 2, 2003). These CSMs were prepared and used to allow the cleanup project to proceed prior to completing the OE clearance of the entire Project Site. The USACE and the California Department of Toxic Substances Control (DTSC) reviewed and provided comments on these documents. It is the intent of this Final CSM to address those comments provided by USACE and DTSC on the preliminary draft models and to consolidate the three documents into one CSM.



1.4 Purpose of Final CSM

The purpose of this Final CSM is to:

1. Present the historical background of the Project Site focusing on past site activities by the Department of Defense (DOD);
2. Present the results of the OE cleanup in text and figures illustrating the vertical and lateral distribution of OE Energetic, OE Like, and OE Scrap items;
3. Evaluate historical information and the distribution of OE/OE Scrap and chemically-impacted soils to formulate a model of the site that fits the data, if possible;
4. Provide the model as confirmation that the Project Site has been cleaned up to the requirements of the OE RDD and the DTSC's Imminent and/or Substantial Endangerment Determination and Remedial Action Order dated June 1, 1999, and that all actions required by the Order have been addressed; and
5. Evaluate the potential for OE to have been moved off the Project Site to Units D-1 through D-4 during grading operations in 1999 and the potential risks.



2.0 HISTORY OF THE PROJECT SITE

In 1944, the U.S. Army leased approximately 200 acres of undeveloped ranchland, which included among other areas the North Valley, South Valley, and Ridge Areas (now known as the "Tourtelot Property") which was situated next to the north end of the Benicia Arsenal. The Benicia Arsenal was used variously as a depot for storing, issuing, repairing, and distributing ordnance, testing gunpowder, and holding and storing ammunition and explosives (Records Research Report [RRR]; Jacobs Engineering [Jacobs], 1999).

Between 1945 and 1947, the DOD began developing the Tourtelot Property for a number of different activities in the North Valley, on the Ridge, and in the South Valley (Figure 1). These activities included the burning of dynamite and flares, disposal of TNT, ammunition demilitarization, accuracy testing of Howitzer barrels, and the demolition of damaged and obsolete ammunitions.

According to the RRR, ammunition was brought back to the Benicia Arsenal from American bases in the Pacific between 1945 and 1950. The returned ammunition was inspected for obsolescence or damage. The bulk of this ammunition was taken to the "Revetment Area" which included the Tourtelot Property, and was destroyed.

By 1950, ammunition demolition activities began to be phased out at the Benicia Arsenal. The DOD discontinued demolition operations in 1951; by 1952, there were only small arms munitions at the Benicia Arsenal.

The RRR indicates that, in 1955, the Army inspected a surplus area (a portion of the Tourtelot Property) consisting of 92 acres of steep rolling hills. An Explosive Ordnance Disposal (EOD) team had previously cleared and restricted 15 acres of this area. This EOD-cleared area had several large craters used for the destruction of ammunition. Demolition Site 3 is identified as the area containing craters in historic documents. The EOD officer located 10 OE Energetic items on the ground surface during a brief inspection. The officer concluded that the area was not an impact area and would probably not require subsurface restriction should a search and clearance be performed.

In 1955 and 1960, the Army's leases for the Tourtelot Property terminated. Thereafter, the Tourtelot Property remained under private ownership and was not developed. DOD announced plans to deactivate the Benicia Arsenal on March 30, 1961; closure was set for March 30, 1964.



The actual process of closing the Benicia Arsenal was finalized in February 1965, when the General Services Administration (GSA) quit-claimed approximately 1,785 acres of the site to the City of Benicia.

In 1971, developers acquired portions of the Tourtelot Property; the remaining 110-acre parcel was acquired from Mary Tourtelot in 1981 as part of the Southampton residential development. In 1989, the City of Benicia approved the Environmental Impact Report (EIR; EIP Associates, 1989) for residential development of the property. In 1990, grading activities were conducted on the Project Site in support of off- and on-site residential development.

An inert-filled artillery shell was found on the Tourtelot Property in mid-1996. In late fall 1996, OE Energetic items were first encountered and reported by Granite Management Corporation (Granite) to local military personnel for handling. (Granite is the parent company of FN Projects Inc., which owned the Tourtelot Property in 1996.) Granite retained OE experts and initiated OE investigations. Granite subsequently provided its investigation data to the USACE for inclusion in its planned investigation. In 1998, the USACE began investigation of the Project Site as part of the former Benicia Arsenal investigation to characterize the area for OE.

Before 1996, when an adjacent area was being developed for residential use, some grading in the areas currently located within the Project Site occurred. This included mass grading areas immediately to the south and the use of the Ridge Area and a portion of Units D-1 and D-4 as sources of borrow materials. These historical grading activities are discussed further in Section 5.0 of this CSM.

2.1 DOD Activities at the Site

During the period when the DOD used the Project Site, the Site accommodated a range of activities. DOD-related areas of interest were identified (Figure 2) based on the following:

- Site inspections;
- Data collected by the USACE for the *Final Engineering Evaluation/Cost Analysis, Former Benicia Arsenal, Benicia, California* (Earth Tec, 2000);
- A review of historical aerial photographs and photographs taken at ground-level;
- Data presented in the RRR (Jacobs, 1999);
- A review of geophysical mapping data



- Data on OE Energetic, OE Like, and OE Scrap items recovered from digs; and
- Chemical testing data.

These DOD-related areas of interest are as follows:

North Valley

- TNT Strips
- Howitzer Test Facility
- North Valley Military Landfill
- Ammunition Renovation/Primer Destruction Site
- Area 1- Burn Material Area
- Area 2 – Pesticide Area

Ridge Area

- Dynamite Burn Site
- Flare Site 2
- Possible Demolition Site(s)

South Valley

- Flare Site 1
- Flare Site 3
- Demolition Site 1
- Demolition Site 2
- Demolition Site 3
- Mercury-Impacted Area

The following sections present area-specific descriptions of the historical DOD use of the Project Site as documented in historical reports, including interviews of knowledgeable individuals conducted by consultants to the USACE. The descriptions have been supplemented in some cases with findings of recent investigations and cleanup operations.

2.1.1 TNT Strips

Records show that in 1945, a total of 129,950 pounds of TNT was disposed of by burning. The disposal location is unknown; however, this is the only record of TNT disposal on the site.



The time frame of the TNT disposal operation coincides with the first observance in aerial photographs of the non-vegetated TNT strips. The TNT strips are not visible in the January 1945 aerial photograph, and are clearly visible in a December 1947 aerial photograph (see Figure 5).

Up to the time of remediation, the TNT strips were still clearly visible due to the pronounced lack of vegetation. There were five strips lacking vegetation which varied in length from approximately 100 to 800 feet; each strip was approximately 6 feet wide. Exposed soil along the strips was characterized by a deep red color with crystalline materials observed in the dry season. The only activity thought to have occurred at the TNT Strips is the disposal of TNT, which was most likely accomplished by burning.

Concentrations of TNT found during the Remedial Investigation (RI) showed that concentrations of TNT were relatively high in the unvegetated strips. In Strip No. 1, concentrations in two locations exceeded 10 percent explosives; making the TNT affected soil meet the criterion for definition as OE Energetic. None of the samples in any other strip exceeded 10 percent TNT.

It is unclear how the TNT was deposited on the hillside. The most likely scenario is that TNT was dissolved in acetone and poured into shallow trenches on the hillside slopes and then set on fire. This method would have consumed a large percentage of the TNT and accounts for evidence of burning observed in the strips.

2.1.2 Howitzer Test Facility

The Howitzer Test Facility consisted of four structures in the North Valley (see Figure 1):

- Building 181
- Building 182
- Building 183
- Buildings 540 and 542

The first structure, **Building 181**, consisted of two parallel concrete tunnels constructed in 1945 on an excavated pad into the northeast-facing flank of the Ridge Area; each had a 10- by 10-foot opening and extended approximately 100 feet toward the hillside. The concrete tunnels were oriented approximately north-south and were partially covered with soil.

The second structure, **Building 182**, was also constructed in 1945. It was located in the middle of the North Valley at the base of the southwest-facing hillside, approximately 450 feet north of the entrance to the tunnels. This structure contained the open test firing butts.



The third structure, **Building 183**, was a concrete powder loading room located immediately to the west of the test firing butts that was constructed in 1945.

The tunnels and firing butts were used to test howitzer barrels and propellant by firing various-sized, inert-filled howitzer projectiles into the gravel-filled tunnels. This was performed in order to determine if the barrels functioned correctly and whether the propellant was the right mixture. Gravel was dropped into the tunnels from two gravel fill ports (one port located on top of each tunnel). The gravel was used to absorb the howitzer rounds fired into the tunnels. The facility was in operation from approximately 1945 to 1955.

The fourth structure, **Buildings 540 and 542**, included another unidentified structure. This facility was reported under several names (Calibration Facility, Soil Test Laboratory, Cement Block Test Cell). This structure was situated between the firing butts and the test tunnels. The buildings probably had several uses and were reportedly built in 1957 (Building 540) and 1958 (Building 542), apparently after the Howitzer Test Facility ceased operations. Building 540 was 12 by 20 feet, however, no records of the size of Building 542 are available. The analyses of the various vintages of aerial photographs of the site indicate that these facilities apparently occupied an area of approximately 20 by 20 feet. Records do not clearly reveal what or how the building(s) were used.

In 1996, all structures within the Howitzer Test Facility were dismantled. Most of the building construction debris and some OE Scrap were removed from the Project Site during these activities. A large number of inert filled (gravel and/or plaster) howitzer projectiles were unearthed during the dismantling activities, particularly in the vicinity of the test tunnels. During demolition operations, it was reported that inert filled shells and practice landmine fuses (OE Like) were found beneath the foundation of Building 540.

Gravel and debris were removed from inside the test tunnels. The soil cover over the concrete tunnels was also removed and the tunnels and other structures in the area were demolished. The removed gravel, debris, and soil were screened under the observation of a qualified explosives specialist. The debris from inside the tunnels consisted primarily of inert filled howitzer shells (OE Like-filled with pea gravel, sand, or plaster) and OE Scrap. Some non-DOD related debris was also removed (i.e. a burned-out car). The soil removed from over the tunnels also contained inert filled howitzer rounds. The gravel, debris, and soils were screened for OE as much as possible and were sorted into two stockpiles: (1) one soil stockpile was considered to be relatively free of OE Scrap, and (2) one soil stockpile was considered to only contain small fragments of OE Scrap. The area was geophysically mapped in 1996 and all detected anomalies



were investigated and removed. Excavated and screened soil from the OE clearance activities was also placed in the stockpile. The two stockpiles were subsequently moved around the Howitzer Test Facility area to accommodate a complete geophysical survey of the area. The two stockpiles were eventually consolidated into a single stockpile, formerly called North Valley Stockpile 3. As part of current cleanup operations, Stockpile 3 was transported to the Ridge Area and processed to remove any potential OE it may have contained.

2.1.3 North Valley Military Landfill

The RRR reported a disposal area associated with the howitzer test tunnels. Shell casings, OE Scrap, and other debris removed from the concrete test tunnels were discarded in the area immediately adjacent to and northeast of the entrance to the tunnels. This area apparently was first used when the tunnels were constructed in 1945; the area was in operation until approximately 1955, at which time the testing activities ceased. The original area was reportedly a poorly defined drainage pathway that was gradually filled with shell casings, shrapnel, and debris dug out from the test tunnels after artillery testing. According to the RRR, the disposal area was eventually filled with debris to a depth of approximately 12 feet. Based on a review of historical aerial photographs (1947, 1952, and 1960), the location of the disposal area was established as shown on Figure 1.

During the period May through June 2000, a Removal Action Investigation was performed in the established location of the North Valley Military Landfill. A series of test pits were dug with OE support primarily for the purpose of characterizing the landfill materials and native soil below the landfill for chemical assessment purposes. However, the removal action did not locate significant quantities of the type of material expected (i.e., shell casings and OE Scrap). Materials found were mainly soil mixed with occasional pieces of burned remnants of wooden munition boxes including ashes, hinges and hasps, and some metal debris.

In 1996, a screened opening was observed at the top of each of the tunnels that was apparently used to separate shell casings and large scrap pieces from the gravel that filled the tunnels. It is thought that periodically the gravel, inert filled projectiles, and OE Scrap were removed from the tunnels and separated on top of the tunnels. The gravel filled rounds and scrap too large to fit through the screen was pushed to the sides of the tunnels and eventually covered them. On the eastern side of the howitzer test tunnels, this material may have extended all the way to the excavation slope that was made to construct the facility. It is thought that this material may be that described in the historical records as the Military Landfill. In 1996, this material was removed from beside and off the tunnels and was screened for OE.



During the 1996 activities at the Howitzer Test Facility, an area of debris was encountered to the northeast of the previously estimated disposal area to a depth of no more than 5 feet below ground surface (bgs). However, the debris uncovered in this area was mainly wood crates, pallets, and packing materials. Some inert filled ordnance, including 155 mm howitzer projectiles (gravel, sand, or plaster filled) was also recovered and removed from this area during the OE clearance of the Howitzer Test Facility. The wood debris and packing materials were added to the screened soil stockpile and eventually consolidated into former North Valley Stockpile 3.

2.1.4 Ammunition Renovation and Primer Destruction Site

The Ammunition Renovation and Primer Destruction Site was situated in the North Valley adjacent to the Howitzer Test Facility (see Figure 1). Two facilities were located at this site: the Primer Destruction Facility, and later the Ammunition Renovation Facility.

The Primer Destruction Facility was constructed on a relatively flat-graded surface that was partially paved with asphalt at the upper reaches of the North Valley, near the drainage divide. The facility was operational from 1945 to 1947. Typically, primers were disposed of by conveying them to a "squirrel cage" or metal tank (referred to as a burn kettle) and burning them at a sufficiently high temperature to consume any energetic material they contained. An oil burner was usually attached to the cage or tank and was left running constantly during the disposal process.

The Ammunition Renovation Facility was used to inspect and refurbish ordnance items stored at the Benicia Arsenal. Ammunition casings were broken down, cleaned, and processed in preparation for painting. Painting was performed in a separate shelter from the breakdown shelter.

2.1.5 North Valley Areas 1 and 2

Areas 1 and 2 were discovered during the excavation and removal of shallow fill soils in the North Valley (see Figure 1.) Area 1 was an oval-shaped area, approximately 200 feet long and 100 feet wide. The soil in this area contained charred residue from burning. Area 2 was a triangular-shaped area with an approximate 150-foot base and 100 feet wide. The soil in Area 2 had an odor that was identified through analytical testing to be pesticides.



2.1.6 Dynamite Burn Site

Unserviceable dynamite was reportedly disposed of through burning on the Ridge. The dynamite was reportedly burned by placing multiple sticks in rows up to 100 feet long on top of paper packaging material. The paper material was then set aflame, which in turn ignited the dynamite that burned until consumed. This area is reported to have been continuously used for 3 months in 1947 and 1948 until all the dynamite was destroyed (Jacobs, 1999). The area used for the burning of dynamite was reported to be approximately one-half the size of a football field, and was situated approximately 700 feet south of Building 181 (see Figure 1). This area exhibited a flat topography and was located immediately above and northwest of the truck turnaround that was apparent at the end of the "J"-shaped road in 1947 aerial photographs (originally at about elevation 225 feet above mean sea level [MSL]). Inspection of aerial photographs taken December 1, 1947 reveal a criss-cross pattern of dark and light tone strips oriented approximately northeast, southwest, and northwest-southeast which is interpreted to represent the burn strips. The March 3, 1948 aerial photographs also show this pattern, with two prominent dark-toned strips extending approximately northeast to southwest across the top of the Ridge.

As detailed further in Section 5.5 of this CSM, all evidence indicates that the Dynamite Burn Site was excavated and used as fill in the McAllister Drive Land Bridge. No chemically-impacted soils were found on the Ridge, nor have any been located in the Land Bridge during the RI or the additional investigation performed during cleanup. Swale areas downgradient of the Dynamite Burn Site have been sampled and analyzed to assess if chemically-impacted soils are present. No chemical-impacted areas requiring remediation were identified in the *Non-OE Investigation Areas Report* (Northgate, 2003).

2.1.7 Flare Site 1

Flare Site 1 was situated in the South Valley on the south side of the wetland and was visually evident by the residual ash and metallic components of military flares on the ground surface (Figure 1). Aerial photograph inspection indicates that the site was situated on a landslide that is evident since the earliest available aerial photograph (1937). The Flare Site was used to dispose of flares by burning, which typically consisted of placing flares on the ground in rows and igniting them. Based on the number of OE items found at the Flare Site, it appears that limited ordnance demolition operations were also performed at this area.



2.1.8 Demolition Site 1

Demolition Site 1 was identified as a possible demolition site based on aerial photograph interpretation and on an early geophysical survey performed by Norcal Geophysical Consultants. The demolition site is situated near the bottom of the South Valley on the south side of the wetland (Figure 1). A smaller drainage (swale area) running down the south slope of the South Valley runs through the demolition site. The site is clearly visible in a number of the historical aerial photographs reviewed and first appears circa 1945, although no evidence of the type of use is evident on the photographs. A rectangular feature resembling a container is observed in aerial photographs dated 1948 at an approximate elevation of 105 to 110 feet above MSL in the southernmost portion of the site. A large magnetic anomaly is evident in the Norcal data at the south end of the suspected site that appears to coincide with the feature observed in the 1948 aerial photograph. A burn kettle was unearthed in the demolition site along with numerous OE Energetic items during clearance operations.

2.1.9 Demolition Site 2

This suspected demolition site showed no evidence of DOD use. This suspected site was on the south side of the South Valley between the Flare Site and Demolition Site 1 (Figure 1). The site was suspected of being a demolition site, as it appears disturbed or barren in several historical aerial photographs. Disturbance in this area is being attributed to a landslide/earth flow identified in that area on the 1945 and later photographs. No OE Energetic items have been found in this area.

2.1.10 Demolition Site 3

Demolition Site 3 was situated on the north side of the South Valley (Figure 1). Demolition Site 3 is evident on aerial photographs starting in 1947; this site coincides with a bench-like area on the hillside, possibly an ancient landslide feature visible in 1945 photographs (prior to use by the DOD). The topographic map shows the bench at an approximate elevation of 105 feet above MSL. The surface of the bench appears disturbed in several of the photographs, and craters were identified on the ground at this location. Four or five craters are visible on the 1947 aerial photograph (Figure 5). OE clearance operations have proven Demolition Site 3 to be greater in size and depth than initially considered.



2.1.11 Flare Site 2

Flare Site 2 was identified during the first phase of point clearance. This area is approximately 20 by 30 feet in size and located on the Ridge. The area was identified as a flare site due to the presence of a large number of aluminum flare casings and other flare components. The volume of flare related materials removed during the first phase of point clearance filled two 55-gallon drums. The flare casings were 3 to 5 inches in diameter indicating they were artillery or aircraft flares. The casings had a white residue associated with them that was chemical tested to be primarily aluminum.

2.1.12 Flare Site 3

Flare Site 3 was identified during the first phase of point clearance. The remedial work indicates that this area was approximately 20 feet in diameter and located in grid 1919 (Figure 8). The area was identified as a flare site due to the presence of aluminum flare casings and ash. The aluminum casings are smaller than those found at Flare Site 2. The casings had a white residue associated with them similar to Flare Site 2. Flare Site 3 is located at the northern edge of the South Valley wetlands and extended partially into the wetlands.

2.1.13 1945 Disturbed Area

An aerial photograph taken on January 16, 1945 shows a disturbed ground area adjacent to and south of the prominent tree line extending from the east end of the North Valley towards the Dynamite Burn Site. The area shows a faint texture of irregular topography not seen in the previous photographs, but similar to pockmark, disturbed ground in agricultural areas outside the former Benicia Arsenal. No roads or other types of ground disturbance indicative of DOD-related activities are visible on the Project Site in the 1945 photograph. Northgate has conducted an environmental investigation of the 1945 Disturbed Area. Seven exploratory borings were drilled through the colluvium into bedrock in accordance with the Non-OE RDD. The results of the analysis of soil and bedrock samples indicate that no DOD activities related to the release of chemicals to the environment occurred at this location (Northgate, 2003).

2.1.14 Downgradient of the Dynamite Burn Site

In 1990, approximately 400,000 cubic yards of colluvium and bedrock were excavated from the Ridge. This material included the former Dynamite Burn Site. After removal of this material, the top of the Ridge was exposed bedrock. However, at the edges of the cut, native undisturbed colluvium remained. Northgate conducted an exploratory drilling, soil sampling, and laboratory analysis program to assess if chemicals are present in colluvium and bedrock downgradient from



the Dynamite Burn Site in the natural drainage courses. Four exploratory borings were drilled through the colluvium into bedrock and soil samples were collected in accordance with the Non-OE RDD. The results of the analysis of soil and bedrock samples indicate that no release of chemicals to the environment occurred at these locations requiring remedial action (Northgate, 2003).



3.0 SITE CONDITIONS

3.1 North Valley

3.1.1 North Valley Historical Use Profile

The North Valley facility profile has been described in detail in Section 2.0 of this CSM. Additional physical features have been identified as a result of remedial activities. The following physical features have been identified:

- During DOD use of the Project Site, utilities serviced the North Valley. Specifically, in 2002, a metallic water line and an electrical line were identified and removed from the eastern end of the North Valley to the location of Stockpiles 1 and 2 (Figure 1). During work in 2003, a section of a storm drain line was found and removed.
- A metal burn kettle and squirrel cage (popping furnace) was recovered from the former Ammunition Renovation Area (Figure 1.) The popping furnace appears to have been used to destroy primers, detonators, and other small explosive components. The popping furnace was recovered during intrusive investigation work in the North Valley. The popping furnace had been crushed and buried beneath the ground surface, and is thought to be the item identified as a possible underground storage tank (UST) in the RI/FS (Earth Tech, 2001).

3.1.2 Physical Profile

The North Valley is a portion of the 220-acre Tourtelot Project Site. Lake Herman is located a little over 1,000 feet to the northwest of the North Valley and is a water storage reservoir for the City of Benicia. East of the North Valley, several commercial building exists; the closest building is approximately 800 feet from the east end of the North Valley. Residential development exists southwest and to the south of the North Valley. The nearest home is located approximately 900 feet away.

The North Valley is a northwest-southeast trending valley with ridges to the northeast and southwest. The valley floor contains a saddle near the west end of the valley with at approximate Elevation 155. The elevation at the western end of the valley is approximately 125 and 105 at the eastern end.



During heavy rainfall events, surface water may accumulate and create runoff. Except for these events, there are no permanent surface water features in the North Valley. Some seasonal seeps have also been noted in the valley floor and in the side slopes of the valley. Groundwater has been found in wells in the valley. Groundwater elevations fluctuate seasonally (water level changes range from 1.69 to 8.12 feet [Earth Tech, 2001]). A narrow wetland (no surface water is present) was identified in the eastern end of the valley. This wetland has been filled as part of the remediation project and a mitigation wetland will be added to the South Valley Wetlands.

The Project Site is underlain by Panoche Formation bedrock consisting primarily of shale. Occasionally, the Panoche Formation has more resistant sandstone, siltstone, and/or conglomerate layers interbedded with the shale layers. The bedrock is overlain by shallow colluvium on the hillsides and alluvium in the valley bottom. Colluvium generally ranges from 2 to 9 feet thick and alluvium up to 26 feet thick.

Test borings drilled during the RI (Earth Tech, 2001) indicated that a relatively thin fill (Undocumented Fill) exists over most of the moderately level portion of the North Valley. The fill was approximately 3 to 4 feet in thickness, and it is unknown when or how the fill was placed. However, it does seem likely that the fill was placed when the cuts were made for the Howitzer Test Tunnels in 1945. The fill was used to create a relatively level surface for the North Valley facilities. The fill was removed in June 2003 as a part of the Tourtelot Remediation Project.

Additional information on the physical profile of the North Valley is available in the RI/FS (Earth Tech, 2001).

3.1.3 North Valley Environmental Conditions and Known Chemical Releases

The following areas are identified in the RI/FS (or were identified during remedial activities) as being chemically-impacted with concentrations exceeding Preliminary Remedial Goals (PRGs):

- TNT Strips
- North Valley Stockpiles
- Hydrocarbon Area
- Area 1
- Area 2



3.1.3.1 TNT Strip Area

The TNT strips are discussed in further detail in Section 2.1 of this CMP. The highest concentrations of TNT were detected in the unvegetated portion of the strips. The maximum concentrations in the TNT strips prior to remediation were as follows:

- Strip 1 – 380,000 milligrams per kilogram (mg/kg) detected at 1 foot and 110,000 mg/kg at 2 feet in one location; at a second location, a concentration of 290,000 mg/kg was detected.
- Strip 2 – 92,000 mg/kg
- Strip 3 – 51,000 mg/kg
- Strip 4 – 20,000 mg/kg
- Strip 5 – 49,000 mg/kg

Based on the RI/FS (Earth Tech, 2001), the concentrations of explosives within the unvegetated strips significantly decreased at a depth of 2 feet. Concentrations exceeding the cleanup level were found to a depth of 10 feet below the strips at some locations. Concentrations also decreased with increasing distance from the strips and the affected soil depth became shallower. Generally at distances greater than 15 feet from the strips, the concentrations were below the PRGs. During remediation, depths in excess of 10 feet were required in some areas to remove the TNT-impacted soil and bedrock.

3.1.3.2 North Valley Stockpiles

Polynuclear aromatic (PNA) hydrocarbons were detected at low concentrations that exceeded the PRGs for the Project Site in soils for Stockpiles 2 and 3. Stockpiles 1, 2 and 3 contained asphalt debris removed from the ground surface during the 1996 OE clearance operations.

3.1.3.3 Hydrocarbon Area

A low concentration of oil was detected in near-surface soils in the bottom of the North Valley. It is believed that the DOD may have used oil as a dust control measure at some time during its use of the North Valley.



3.1.3.4 Area 1

Area 1 was identified during the removal of the Undocumented Fill in the bottom of the North Valley and is located within the former Ammunition Renovation Primer Destruction Site (Figure 1.) Area 1 contained remnants of burned materials, specifically ash and OE Scrap. It is thought that the origin of these materials is the popping furnace. The ash materials contained dioxins at a level that exceeded the PRGs (Northgate, 2003).

3.1.3.5 Area 2

Area 2 was found during removal of the Undocumented fill within the general area of Stockpile 3. The material was odorous and had a smell suggestive of volatile organic compounds (VOCs). The material was tested for VOCs, petroleum constituents, and pesticides. The material contained relatively low levels of total petroleum hydrocarbons (TPH) as diesel and pesticides, and was slightly above the PRGs for Total Extractable Petroleum Hydrocarbons (TEPH) established for the former North Valley stockpiles and exceeded the U.S. Environmental Protection Agency's (USEPA) PRGs for pesticides.

3.1.3.6 North Valley Groundwater

As stated in the RI/FS (Earth Tech, 2001), groundwater samples from wells in the North Valley indicate that groundwater has not been affected by DOD activities in this area.

3.1.4 Ecological Setting

A small wetland exists in the North Valley that does not have surface water, however, at certain times during the winter months, does have shallow groundwater. This area has been filled as part of the OE remediation. The project grading plans show 60 feet of fill in this area. A wetlands mitigation area will be constructed in the South Valley as mitigation for filling this wetlands and a portion of the upland wetlands in the South Valley.

3.2 Ridge Area

3.2.1 Ridge Historical Use Profile

The Ridge facility profile has been described in detail in Section 2.0 of this CSM. In addition to the areas discussed above, some additional Site features can be found in the records, construction plans, and aerial photographs. These features include: (1) three small buildings or towers on the hillside north of Demolition Site 3 that may have been used as guard houses or observations towers; (2) a suspected portable communication tower location on the Ridge (partially identifiable



in a January 1950 photograph of the North Valley); and (3) the "J" road that led to the Ridge from the North Valley. These additional features are shown on Figure 2-8 of the RI/FS (Earth Tech, 2001).

3.2.2 Physical Profile

The Ridge is a portion of the 220-acre Tourtelot Project Site. Several commercial buildings exist to the east of the Ridge area. The closest of these buildings is approximately 250 feet from the east end of the Ridge.

The Ridge is a northwest-southeast trending feature. Prior to the 1990 grading, the Ridge had four distinct peaks ranging in elevation from 303 feet at the northwest end to 209 feet at the southeast.

The Ridge is underlain by Panoche Formation bedrock consisting primarily of shale. Occasionally, the Panoche Formation has more resistant sandstone, siltstone, and/or conglomerate layers interbedded with the shale layers. The bedrock is overlain by shallow colluvium on the Ridge except in swales where colluvium thickness can be in excess of 9 feet.

Additional information on the physical profile of the Ridge area is available in the RI/FS (Earth Tech, 2001).

3.2.3 Ridge Area Environmental Conditions and Known Chemical Releases

The following areas are identified in the RI/FS (or were identified during remedial activities) as potentially being chemically-impacted with concentrations exceeding PRGs:

- Flare Site 2
- 1945 Disturbed Area
- Downgradient of the Dynamite Burn Site

3.2.3.1 Flare Site 2

Flare Site 2 was identified during remedial activities as being chemically-impacted with concentrations exceeding PRGs.

Elevated concentrations of five metals (barium, copper, lead, mercury, and zinc) were detected in residue from the burning of flares at Flare Site 2. These soils were excavated and removed from the Project Site. Confirmation samples were taken to verify removal of the chemically-affected materials (Northgate, 2004).



3.2.3.2 1945 Disturbed Area

An investigation of the 1945 Disturbed Area was conducted on March 19 and 20, 2003. Seven soil borings were drilled in the area. Soil samples were collected in accordance with the Non-OE RDD (Northgate, 2003) and analytical testing was performed with the following results:

- Explosives, perchlorate, and dioxins/furans were not detected in any of the soil samples.
- TEPH and PAHs were not detected in soil samples at concentrations exceeding the PRGs for soil established for other areas of the Project Site.
- Arsenic was detected at a concentration exceeding the human health-screening criterion (based on USEPA Region 9 residential PRGs) in one sample collected at a depth of 10 feet.
- Barium was detected in one sample at a depth of 9 feet at a concentration exceeding the PRG for soil.
- Iron was detected at a concentration above the human health-screening criterion in one sample at a depth of 9 feet.
- Manganese was detected in three samples at concentrations exceeding the human health-screening criterion at depths ranging from 3 to 9 feet.
- Other metals were not detected at concentrations exceeding human health screening criteria.

It is Northgate's and Exponent's (Pacific Bay Homes' Health Risk Assessor) opinion that the concentrations of the metals in the 1945 Disturbed Area are indicative of ambient values and do not represent a chemical release in this area.

3.2.3.3 Downgradient of the Dynamite Burn Site

Investigations were conducted in areas downgradient from the former Dynamite Burn Site on January 6 and March 19, 2003. Four soil borings were drilled in approximate locations and to the designated depths presented in the Non-OE RDD. Soil samples were collected and analytical testing was performed (Northgate, 2003) with the following results:

- TEPH was not detected in any of the soil samples at concentrations exceeding the PRGs for other areas of the Project Site.



- A low concentration (less than the reporting limit) of the explosive PETN was detected in one soil sample at a depth of 2 feet. (Note: A PRG for soil or human health-screening criterion has not been established for this chemical. This detection will be addressed in the final Human Health and Ecological Risk Assessment for the Project Site.)
- PAHs, polychlorinated biphenyls (PCBs), and dioxins/furans were not detected in any of the soil samples.

3.2.4 Biological Resources

3.2.4.1 Vegetation

The Ridge is covered with non-native annual grasses that are dominated by weedy plant species. Some native plant species are present including the California poppy and coyote brush. For further information on vegetation, see Section 2.0 of the RI/FS (Earth Tech, 2001).

3.2.4.2 Wildlife

A discussion of common species and sensitive species is presented in Section 2.0 of the RI/FS (Earth Tech, 2001).

3.3 South Valley

3.3.1 South Valley Historical Use Profile

The South Valley facility profile has been described in detail in Section 2.0 of this CSM. In addition to the areas discussed above, some additional Site features can be found in the records, construction plans, and aerial photographs. These features include: (1) Ledo Road extending from the Gonsalves Property into the South Valley along the south side of the existing wetlands to a location slightly west of Demolition Site 1; and (2) the Sewer Bench road (underlain by a gravity sewer line). These additional features are shown on Figure 2-8 of the RI/FS (Earth Tech, 2001).

3.3.2 Physical Profile

The South Valley is a portion of the 220-acre Tourtelot Project Site. Residential development exists adjacent to the South Valley to the west and south; homes are generally located 20 feet or more from the Project Site boundary.



The South Valley is a northwest-southeast trending feature. The bottom of the South Valley slopes downward from northwest to southeast. Elevations range from 160 to 66 feet. The McAllister Drive Land Bridge crosses the South Valley at the eastern end.

The bottom of the South Valley is a flourishing wetland. The wetland area was enhanced as a mitigation measure for the filling of wetlands associated with the construction of the Rose Drive and McAllister Drive Land Bridges. In the 1997 time frame, beavers were noted to exist in the South Valley. Currently there are six separate beaver ponds in the valley area. The surface water feeding the South Valley in the summer months is primarily runoff from upslope residential developments. In winter months, natural runoff from developed and open space areas feed water into the South Valley. Surface water from the South Valley runs through the Gonsalves Property and reaches Sulfur Springs Creek and eventually flows into the San Pablo Bay. Some seasonal seeps have also been noted in the slopes of the South Valley.

The South Valley is underlain by Panoche Formation bedrock consisting primarily of shale. Occasionally, the Panoche Formation has more resistant sandstone, siltstone, and/or conglomerate layers interbedded with the shale layers. The bedrock is overlain by alluvium in the valley bottom. In the South Valley, colluvium generally ranges from 2 to 9 feet thick on the slopes and alluvium up to 15 feet thick in the valley bottom.

Additional information on the physical profile of the South Valley is available in the RI/FS (Earth Tech, 2001).

3.3.3 Ridge Area Environmental Conditions and Known Chemical Releases

The following areas are identified in the RI/FS (or were identified during remedial activities) as potentially being chemically-impacted with concentrations exceeding PRGs:

- Flare Site 1
- Flare Site 3
- Demolition Site 1
- Demolition Site 3
- Mercury-Impacted Area (around Demolition Site 3)

3.3.3.1 Flare Site 1

Soil sampling was performed during initial screening work and during the RI in Flare Site 1 to assess if soils were chemically-impacted. Selected soil samples were analyzed for metals, dioxins/



furans, explosive, PAHs, and nitrate/nitrite. No explosives, PAHs or elevated levels of nitrate/nitrite were detected in any of the soil samples. Elevated concentrations of metals including antimony, barium, copper, lead, and zinc were detected in various samples. Dioxin/ furans were also detected at a toxicity equivalent (TEQ) that exceeded the PRG for dioxins/furans developed in the RI/FS. The RI/FS concluded that soils at Flare Site 1 should be excavated and disposed of at an appropriate off-site landfill. Soils at Flare Site 1 were excavated, cleared of OE Energetic, OE Like, OE Scrap, and non-OE metallic debris and removed from the Project Site. Confirmation sampling was performed to verify removal of the chemically-impacted soils (Northgate, 2004).

3.3.3.2 Flare Site 3

Elevated concentrations of five metals, including antimony, barium, cadmium, copper, lead, nickel, zinc, and explosives (1,3,5-TNB and nitrobenzene) were detected in residue from the burning of flares in Flare Site 3. Dioxins/furans were also detected in one investigation sample at toxicity equivalent (TEQ) which exceeded the PRG for dioxins/furans developed in the RI/FS. The upland soils in this area have been excavated and removed from the Project Site. Confirmation sampling has been performed to verify removal of the chemically-impacted soils (Northgate, 2004). Additional OE clearance work remains to be performed in this area to assess if Flare Site 3 extends further into the wetland.

3.3.3.3 Demolition Site 1

Metals concentrations in Demolition Site 1 were generally within the ranges of ambient concentrations for the Project Site or below human health screening criteria. Two investigation samples contained arsenic at concentrations above the 95th percentile of ambient concentrations. PAHs and explosives were not detected in any of the investigation samples and dioxins/furans were not detected at concentrations exceeding the PRG TEQ established in the Non-OE RDD for Flare Site 1. Demolition Site 1 soils were excavated to bedrock and loaded directly into trucks for transport to the Ridge Area for OE clearance. Demolition Site 1 soils were approved by DTSC for use as backfill in the North Valley.

3.3.3.4 Demolition Site 3

Mercury was detected above the PRG for soil in four samples at Demolition Site 3. However, the high density of OE and/or OE Scrap in the Demolition Site 3 area made OE point-clearance and further investigation sampling in the Demolition Site 3 area infeasible. Demolition Site 3 soils were excavated and moved to the Ridge Area for OE clearance. After excavation of the Demolition Site 3 soils, confirmation samples were collected to verify that chemically-impacted



soils were removed. As approved by DTSC, following the completion of analytical testing and OE clearance, excavated soils from Demolition Site 3 were used as fill in the North Valley.

3.3.3.5 Mercury-Impacted Area (Around Demolition Site 3)

Mercury was detected at concentrations in soil samples above the PRG in a number of samples, primarily in the upper 2 feet of soil (Earth Tech, 2001). Since the maximum concentrations are an order of magnitude below the USEPA Region 9 residential PRG, the soil has been approved by DTSC for use as fill in the North Valley (below the layer of 14 feet of crushed bedrock required by the RAP) for placement above the fill soils in residential areas.

3.3.3.6 South Valley Groundwater

As stated in the RI/FS (Earth Tech, 2001), groundwater samples from wells in the South Valley indicate that groundwater has not been affected by DOD activities.

3.3.3.7 South Valley Surface Water

As stated in the RI/FS (Earth Tech, 2001), surface water samples from the wetlands in the South Valley indicate that surface water has not been affected by DOD activities.

3.3.4 Biological Resources

3.3.4.1 Vegetation

The majority of the Project Site, including the South Valley slopes, is covered with non-native annual grasses that are dominated by weedy plant species. Some native plant species are present including the California poppy and coyote brush.

The South Valley Wetland contains willow riparian and fresh water marsh vegetation. Fresh water wetland vegetation also occurs in upslope locations where seeps or storm water drainage pipes exit onto the slopes.

For further information on vegetation, see Section 2.0 of the RI/FS (Earth Tech, 2001).

3.3.4.2 Wildlife

A discussion of common species and sensitive species is presented in Section 2.0 of the RI/FS (Earth Tech, 2001).



4.0 OE CLEANUP, DISTRIBUTION OF OE ENERGETIC, OE LIKE, AND OE SCRAP

4.1 North Valley OE Cleanup

The North Valley has been cleared of OE Energetic, OE Like, OE Scrap, and Non OE metallic debris in substantial conformance with the OE RDD (Northgate, 2004). A surface clearance and two complete phases of point clearance including mapping, reacquisition, and target excavation have been performed in the valley. During these activities, OE Energetic, OE Like, OE Scrap, and non-OE metallic debris have been recovered and removed from the North Valley. North Valley Stockpiles 1, 2 and 3 were cleared of potential OE and were transported to an off-site landfill for disposal. A portion of the North Valley stockpile clearance was conducted in-place. In-place processing proved to be highly inefficient; therefore, the remainder of the stockpiles were transported to the Ridge areas where they were processed to remove potential OE, either through sifting or spread-and-scan methodologies.

The Undocumented Fill in the bottom of the North Valley was excavated and transported to the Ridge for OE clearance (i.e., sifting or spread-and-scan). A confirmation scan of the exposed native soils beneath the fill was performed including geophysical mapping using digital equipment and subsequent point clearance of selected targets. Following OE clearance, the material was returned to the North Valley for use as fill.

The OE portion of the TNT Strips was treated by homogenization of soils in-place. Confirmation testing of the homogenized soils was performed to verify that TNT concentrations were below the 10 percent explosive level, and subsequently the homogenized soil was removed from the Project Site to an appropriate landfill.

QC and QA activities were completed in the North Valley area. The North Valley is currently being filled with soil from area-wide clearance operations, grading operations, and from OE clearance operations that required sifting or spread-and-scan. Area-wide clearance and some spread-and-scan soils were scanned again when placed in the North Valley.

4.2 Ridge OE Cleanup

During the OE cleanup portion of the remediation work, the Ridge was surface cleared, mapped twice, and intrusively investigated twice. Portions of the Ridge area, including stockpile footprints and processing areas, were real time scanned and intrusively investigated.



The following additional activities have been performed on the Ridge:

- Soil and construction debris stockpiles have been cleared of OE and either removed from the Project Site or used as fill in the North Valley.
- QC and third-party QA have completed their reviews and checks for the Ridge and concluded that clearance is complete in these areas.

Area-wide clearance is complete in the designated portions of the Ridge (Figure 7.) The areas were selected based on the *Preliminary Conceptual Site Model For Ridge and South Valley* (Northgate, 2003).

4.3 South Valley OE Cleanup

During the OE cleanup portion of the remediation work, available areas in the South Valley have been surface cleared, mapped twice, and intrusively investigated twice. Portions of the South Valley wetlands were not available for mapping and/or intrusive investigation. Completion of the OE clearance in the wetland area is currently ongoing using real time mag and dig procedures. It is not anticipated that OE finds in the wetlands will materially change the findings of the CSM. There is no evidence that the current wetlands area was used for ordnance demolition; rather, it is expected that OE and OE Scrap, consistent with finds in the surrounding area, will also be found in the wetlands.

The following additional activities have been performed in the South Valley:

- Portions of the South Valley were designated for further OE clearance using a mechanical removal and sifting process. These areas were suspected to potentially contain OE after two phases of mapping and intrusive investigation. The areas in question have been scraped to a depth of approximately 18 inches. The scraped soils were then taken to the Ridge area where they were sifted to remove any potential OE.
- A portion of the South Valley, in the vicinity of Demolition Site 1, has been scanned and dug for a third time using real time methods.
- Demolition Sites 1 and 3 were excavated to bedrock and confirmation scanned to verify removal of OE Energetic, OE Like, OE Scrap, and non-OE metallic debris. Demolition Site 3 has been backfilled to approximately previous existing grades. Demolition Site 1 will be backfilled with OE-free fill prior to project completion.



- A lens of soil that existed within the residential area of the D-1 Parcel has been removed, taken to the Ridge area, and cleared of OE.
- The fill area in the northeast corner of Unit D-1 (except for fill under McAllister Drive) has been excavated, taken to the Ridge area, and cleared of OE.
- Sidewalks have been demolished in the area where fill was placed under McAllister Drive. Colluvium and fill soil beneath the sidewalks, within 4 feet of finished grade, has been excavated and taken to the Ridge area for stockpiling and subsequent OE clearance. The excavations were backfilled with OE-free crushed bedrock and new sidewalks have been constructed. As part of this activity, the fill soil above the dry utilities in this area was excavated and replaced with OE free materials.
- Confirmation scans have been performed on the excavated surfaces where fill and/or colluvium have been removed.
- Fill soils placed in 1990 over the dry utilities in the Land Bridge have been excavated and replaced with OE-free crushed bedrock.
- A QA Action has been performed on 15 acres of the Gonsalves Property. The QA Action consisted of vegetation and debris removal, real-time geophysical scanning, and the investigation of metallic anomalies. These actions resulted in the disposal of one OE Energetic item and some OE Scrap.
- The soil stockpiles in Unit D-1 were scanned for potential OE and analytically tested for chemicals. Soils were found to be clean and transported offsite for disposal.
- QC and third-party QA have completed their review of OE clearance activities in the available areas of the South Valley and concluded that OE clearance is complete.
- A Technical Memorandum was issued on September 8, 2003 documenting the completion of the D-1 Parcel (Project Site portion of Unit D-1). This Memorandum was approved by DTSC.

4.4 Extent of OE Energetic and OE Like Items

Prior to the recent OE clearance of the Project Site, limited OE investigative and clearance operations were conducted by USACE and contractors retained by Granite.



These clearance efforts resulted in finding nine OE Energetic items at the Ridge and South Valley areas. The locations of these historic items are shown on Figure 1-4 of the OE RDD and are incorporated in the OE Energetic maps included in this CSM (see Figures 2, 3 and 4).

The Project Site was surface cleared during March and April 2002. A total of 14 OE Energetic items were found in various locations on the Project Site during surface clearance. A list of OE Energetic items found during the period of March 21, 2002 through March 31, 2004 is presented in Table 1. The line items with grid locations ending with a "900" series number are those items found during surface clearance operations.

As of March 31, 2004, a total of 2,571 OE Energetic items were found during the OE clearance operations. The distribution of these items for all depths is shown on Figure 2. The largest concentrations of OE Energetic items are in the locations of the known and suspected demolition sites and adjacent areas, specifically Demolition Sites 1 and 3 in the South Valley and a suspected demolition site on the Ridge (in Grids N22 to N24 and E35 to E37). The west end of the South Valley and portions of the North Valley, which were outside the range of demolition operations, were free of OE Energetic and OE Like items. It is Northgate's opinion that these areas require No Further Action (NFA).

OE clearance operations of Demolition Site 3 materials have yielded a large portion of the OE Energetic finds on the Project Site. The number of OE items indicates that Demolition Site 3 was heavily used as a demolition site.

4.4.1 Distribution of 37 mm Energetic and OE Like Items

A total of 151, 37 mm OE Energetic and OE Like items have been found. Of these 151 items, 83 are OE Energetic and 68 were OE Like. Some of the 37 mm Energetic items were fused and others were not. All but two of the 37mm OE Energetic items were found at depths less than 12 inches. The 37 mm OE Energetic items were described as being HE, HESD, TP, or tracer. The location of the 37mm OE Energetic and OE Like items at all depths is shown on Figure 4.

4.4.2 Distribution of OE Energetic Fuses

Most of the fuses located up to April 2003 were found in and around Demolition Site 3. Three fuses were found on the Ridge in the vicinity of grids N22 to N24 and E35 to E37 and three were found in the North Valley near the ammunition Primer Destruction Site. One fuse was located on the Gonsalves Property. All but three of the OE Energetic fuses were found at depths less than 12 inches.



4.4.3 Distribution of OE Energetic Grenades

All of the grenades appear to be associated with Demolition Site 3 or were located in the Land Bridge with the exceptions of two grenades that were recovered on Unit D-1. The majority of the grenades were unfused. All but two of the OE Energetic grenades were recovered at depths less than 12 inches.

4.4.4 Distribution of Energetic Mortars

A total of 18 mortars were found during the OE clearance. Approximately half of the finds were located on the Ridge and the remaining half were located in the vicinity of Demolition Site 3. Of the 18 mortars, 15 were 60 mm and 3 were 81 mm. One of the 81 mm mortars was determined to be white phosphorous filled. With the exception of one mortar, the remaining mortars were found at depths equal to or less than 12 inches.

4.4.5 Distribution of OE Energetic Items Larger Than 37 mm

Approximately 32 OE Energetic items larger than 37 mm have been recovered on the Project Site to date. These items include two 57 mm projectiles, twenty-five 75 mm projectiles, two 6-pound projectiles, and three 105 mm projectiles. All of these items were recovered in the vicinity of Demolition Site 3, except one 75 mm AP projectile that was located in the Unit D-1 fill near the Sector 1/Sector 2 boundaries. The three OE Energetic 105 mm projectiles were partially filled. Demolition Site 3 materials are still being processed and continue to yield OE Energetic items.

4.4.6 Finds Below 12 Inches

A small percentage of the OE Energetic items recovered have been located at depths greater than 12 inches (see Figure 3.) The locations of these finds agree with our understanding of the use and history of the Project Site. Four situations have occurred on-site that have resulted in greater burial depths, including:

- Areas where soil has been moved covering items:
 1. Southern edge of Demolition Site 3 where soil was pushed downslope as a result of earthwork on the demolition site.
 2. Downslope of Casey Court where soil was pushed off the slope edge during grading
 3. Areas of Sector 6 near the Ridge where items are suspected of being associated with shallow pits (Area-Wide Clearance site).



- Areas where historic land sliding has occurred covering OE Energetic Items.
- The McAllister Drive Land Bridge where OE Energetic, OE Like, and OE Scrap that was moved from the Ridge in 1990 during grading operations was placed as fill in horizontal lifts in the Land Bridge.
- The demolition sites (as discussed in Section 5.1).
- Southern edge of Demolition Site 3 where soil was pushed downslope as a result of earthwork on the demolition site.

4.4.7 Gonsalves Property

Five OE Energetic items were found on the adjacent Gonsalves Property. Four of these items were recovered by the USACE during OE clearance operations of Sector 2 of the Benicia Arsenal and one by Northgate during QA actions directed by the DTSC.

4.5 Distribution of OE Scrap

OE Scrap has been found in the North Valley, South Valley, and Ridge areas. Most of the North Valley OE Scrap appears to be associated with the Howitzer Test Facility. The other North Valley OE Scrap producing area was the Ammunition Renovation and Primer Destruction Site. Occasional pieces of OE Scrap have been found on the TNT strips (northern slope of the North Valley). Distribution of OE Scrap was similar, although slightly heavier, on the southern slope of the North Valley (see Figures 3 and 4).

Approximately 50 pieces of OE Scrap were found below 12 inches in the Howitzer Test Facility Area (Figure 3.) In addition, spread-and-scan of the Undocumented Fill from the Ammunition Renovation Primer Destruction Site area resulted in locating numerous pieces of OE Scrap at depths below 12 inches.

The major source of OE Scrap on the Project Site is scrap associated with demolition operations at Demolition Site 3 and, to a lesser extent, Demolition Site 1. This is illustrated by the high density of scrap surrounding the demolition sites that required two phases of point clearance followed by mechanical excavation and sifting or spread-and-scan operations to clear the soils. In addition, the high-density pattern of OE Scrap on the Ridge and in the South Valley appears to be centered on Demolition Site 3.

The distribution of OE Scrap on the Project Site is indicative of DOD's demolition operations prior to 1952. The pattern of OE Scrap is shown on Figures 3 and 4.



On August 10, 2000, a Benicia resident reported to local authorities that he had encountered an ordnance-related item on his property. The property where the item was encountered is situated between Columbia Circle and Rose Drive. The property is across Rose Drive from the Project Site, and is approximately 1,200 feet from Demolition Site 1. At the time the item was found, it was concluded by the USACE and Earth Tech (Granite's OE Consultant) that the article was a tail fin from a mortar. The condition of the tail fin indicated that the mortar was destroyed by demolition. The mortar had not been fired as evidenced by the unpierced percussion primer at the base of the tail fin. The tail fin was classified as a piece of ordnance related scrap. Numerous tail fins were found during the Engineering Evaluation/Cost Analysis (EE/CA) investigation (Earth Tech, 2000) for the Benicia Arsenal, as well as during remediation of the Project Site.

At the time of the scrap recovery, it was concluded by the USACE and DTSC that the presence of the piece of OE Scrap did not represent a significant risk, therefore, no action was required in the area of the scrap recovery and cleanup on the Tourtelot Project Site could begin with results used in the future to inform the risk in off-site areas.



5.0 DISCUSSIONS AND CONCLUSIONS REGARDING OE TYPE AND EXTENT

The findings of this CSM with regard to the extent and type of OE Energetic, OE Like, and OE Scrap items recovered appears to be consistent with the historical work performed by the Army's RRR consultant, the findings of Granite's site investigations, the USACE pre-1999 investigation, and the results of the 2002 to 2004 OE clearance actions conducted on the Project Site. The OE Energetic and OE Like finds, as well as the OE Scrap density patterns, indicate that the major demolition operations occurred at Demolition Sites 1 and 3.

5.1 Demolition Sites

The most used demolition site appears to have been Demolition Site 3. The RRR indicates that demolition occurred in "crater" areas in the swales of the South Valley. A crater area was shown in the RRR at the location of Demolition Site 3. In the EE/CA, Earth Tech identified Demolition Sites 1, 2 and 3 as areas where demolition operations may have taken place. Numerous OE Energetic items were found during the investigative and removal phases confirming this site as a major demolition area. Demolition Site 1, which is located in a swale area, was also confirmed as a demolition site during the removal of site soils to bedrock. All OE clearance and Non-OE investigative work indicates that Demolition Site 2 was not used as a demolition site.

The other major swale that appears to have been used for ordnance demolition is the swale, whose bottom is just east of the toe of the McAllister Drive Land Bridge and extends north and west into the area of Grids N22 to N24 and E35 to E37. This grid area has the third highest OE Energetic item concentration and is located near Flare Site 2. A review of the 1947 aerial photograph shows a lighter colored area downslope (east) of the "J" road coinciding with these grids (Figure 5). The lighter color may indicate activity in the area. In this same photograph, the craters in Demolition Site 3 are visible. Several other potential small crater-like features were also visible along the "J" road. In a 1962 aerial photograph a "cat eye" is visible in the "J" road. This road configuration is commonly used surrounding a demolition site (Figure 6.) These areas were excavated in 1990 when the Ridge was used as a borrow site and most of the surface soils were transported to the Land Bridge for use as fill, except for the area of Grids N22 to N24 and E35 to E37, which was relatively undisturbed prior to the current remediation activities.

Based on the type of OE Energetic items and the limited amount of OE Energetic items and OE Scrap found on the Gonsalves property, it is believed that the Gonsalves property may have been used on rare occasions for demolition of ordnance items. It is also possible that an incident may have occurred on the property that resulted in the relatively small amount of recovered OE related materials. The distance of the Gonsalves property from the South Valley and



possible Ridge demolition sites suggest that these sites cannot be ruled out as sources for some of the OE related materials. The QA work performed by Northgate on the Gonsalves property was approved by the DTSC in their approval of the Technical Memorandum for Unit D-1 (DTSC, 2003).

5.2 Area-Wide Clearance

Area-wide clearance is intended to be an OE removal operation that eliminates potential OE that may remain in future residential areas following point clearance activities. As stated in Section 5.3 of the RAP (Earth Tech 2002b, approved by DTSC January 29, 2002), the concept of area-wide clearance is that *“soil considered to have a potential to contain OE below the geophysical scan depth would be excavated in portions of the North Valley, South Valley and Ridge Areas intended for future residential use.”* The 2003 Preliminary CSM indicated there was a potential for OE to exist below the depth of our scans in 83 grids on the Ridge and in areas of future residential development in the South Valley. Subsequent to that report, through further analysis and discussions with DTSC, third-party QA, and USACE personnel, approximately 40 additional grids were added. The final configuration of the area-wide clearance areas is shown in Figure 7.

The area encompassed in the area-wide clearance grids includes the strip of land on the northern edge of the South Valley between the 1990 Ridge cut and the limits of future residential properties. This area was recommended for area-wide clearance due to the relatively high density of anomalies found in the area and its proximity to Demolition Site 3. Geophysical mapping results have indicated that in areas where a high density of anomalies exists, the geophysical mapping has not been as reliable as in less dense areas due to masking of anomalies. Masking of anomalies increases the potential for post-clearance anomalies to remain. For this reason, most of this area has been scraped to a depth of 18 inches and the soil has been transported to the Ridge for further OE clearance. In less dense areas, there is a higher degree of confidence that anomalies deeper than 12 inches would be detected. The limits of the area subjected to area-wide clearance were conservatively set to encompass the high-density area.

Area-wide clearance was also proposed for the grids on the Ridge as shown on Figure 7. As discussed in Section 5.1, based on the dispersal of OE items, it is suspected that demolition operations occurred in this area. If demolition operations were performed, OE Energetic items could have been pushed deeper into the ground and the resultant pits could have been backfilled resulting in the items being present at depths greater than 12 inches. The limits of this recommended area were set to incorporate the locations of a cluster of OE Energetic items recovered



during the clearance (a 200-foot radius plotted around each item), the light colored area on the 1947 photograph, and Flare Site 2.

In these area-wide clearance areas, two clear lifts of soil are required before normal grading practices can begin, as specified in the OE RDD (Northgate, 2003). In a number of areas where area-wide clearance occurred, bedrock was exposed in the cuts. Bedrock is assumed to be free of OE and only required a real time confirmation scan and removal operation to complete the area-wide clearance. Further excavation is not required.

The CSM confirms that the Project Site was used for demolition operations by open burn/open detonation methods. No live firing or dropping (aerial bombing) of OE occurred on the Project Site. With the exception of demolition sites, OE Scrap, OE Like, and OE Energetic items "rained down" on the site and did not penetrate significantly into the soil. The few exceptions throughout the site where OE Energetic, OE Like, or OE Scrap items were recovered at depths greater than 12 inches involved special circumstances (as previously discussed in Section 4.4.6).

In residential areas where it has been concluded that OE potentially may have remained after point clearance, area-wide clearance is being conducted to remove any potential OE. The North Valley is being filled with cleared soils and will be capped with 14 feet of OE-free material. The post-grading Ridge will be exposed bedrock and in transition areas, soil will be removed to bedrock to depths of 14 feet below finished grade. For these reasons, area-wide clearance is not considered necessary or recommended in other Ridge areas.

5.3 Land Bridge and Utility Corridors

During 1990 grading operations, soil removed from the Ridge was used to construct the Land Bridge. A surface clearance and two complete rounds of point clearance (including mapping, reacquisition, and excavation) have been performed on the Land Bridge. During the OE clearance action, it was determined that the Land Bridge was constructed with soil layers, some of which contained OE materials. The only way to remove these materials would be to remove the entire Land Bridge. In lieu of complete removal, it was decided (with concurrence of DTSC) to excavate targeted anomalous areas to a depth of 2 feet and backfill the excavation with clean material.

A metal mesh was then placed over the surface of the Land Bridge, extending from the edge of the road surface to its base. The wire mesh inhibits the use of metal detectors, reduces erosion, and provides a barrier to prevent digging. The Land Bridge utility corridors were excavated and excavated soils were transported to the Ridge for sifting to remove any OE, if present. The new wet utilities were installed within the corridor and the corridor filled with OE material.



5.4 Recommended No Further Action (NFA) Area

Based on the dispersal of OE Like and OE Energetic items on the Project Site, Northgate recommends that DTSC determine an NFA for the western wetland and surrounding areas (consisting primarily of Sector 4). This will eliminate the specified removal of a number of the beaver dams and ponds. This area was defined by locating the farthest-west OE Like and OE Energetic items, placing a 200-foot arc around each, and drawing a line north-to-south to connect the western apex of each arc (see Figure 8).

5.5 Offsite Issues

5.5.1 Earth Movement and OE Energetic, OE Like and OE Scrap Assessment

Demolition activities in the South Valley and from the suspected demolition site on the Ridge resulted in OE Energetic items, OE Like items, and OE Scrap being “kicked-out” from the demolition sites. The distance an OE item may have been “kicked-out” is defined as the Kick-Out Radius. Soils that were moved during 1990 grading operations, prior to the discovery of OE Energetic items on the Project Site, and were contained within the Kick-Out radius of the demolition sites, are the focus of this assessment. Within the Kick-Out Radius of the demolition sites, OE Energetic, OE Like, and OE Scrap were deposited on the surface or at shallow depths (less than 12 inches bgs). During grading operations in 1990, some of the soils on the Ridge and in areas D-1 and D-4 within the kick-out radius were moved both on- and off-site.

As discussed in Section 2.4 of the RAP (Earth Tech, 2002b, approved by DTSC, January 29, 2002), the following presents Northgate’s assessment of the historical earth-moving that occurred in 1990 and our conclusion as to whether OE items were moved off-site during grading and, as a result, if a risk exists that an OE Energetic item could potentially be encountered in a manner presenting a significant risk of injury or death. In determining these assessments, Northgate has reviewed the following:

- RI/FS (Earth Tech, 2001)
- Grading plans prepared by Bissell & Karn, Inc. for Southampton Units D-1 through D-5 and D-6 and D-7 (1990)
- Engeo’s soil engineering reports for project design, grading, observation, and monitoring services performed by Engeo in such areas (1991); and
- Historic aerial photographs.



Northgate also interviewed personnel of Independent Construction Company who participated in the grading of Units D-1 through D-5, the Ridge, and the McAllister Drive Land Bridge to gain an understanding of the procedures used during grading operations in these areas.

5.5.2 Earth Movement During Grading Units D-1 Through D-5 and McAllister Drive Land Bridge Before 1996

The grading plans for Units D-1 through D-5 and the Tourtelot Project Site Units D-6 and D-7 show areas of cut and fill. The areas for Units D-1 through D-4 and cuts made on the Ridge in 1990 are illustrated on Figure 9. These cut and fill areas are described below.

- South Fill Area – A fill area south of Rose Drive; includes almost all of Unit D-2, the south portion of Unit D-1, and the east portion of Unit D-3.
- West Fill Area – A fill area at the west end of the South Valley; includes the west portion of Unit D-4 along Panorama Drive and the west portion of Unit D-3 along Rose Drive and McCall Drive.
- D-1 Cut Area – A cut area adjacent and north of the South Fill Area; includes the north portion of Unit D-1 to the north of Rose Drive and along McCall Drive and McAllister Drive.
- D-3/D-4 Cut Area – A cut area adjacent and north of the South Fill Area and east of the West Fill Area; includes the south portion of Unit D-4 and adjoining Unit D-3 along McCall Drive.
- South Cut Areas – Cut areas along Watson and Gray Courts.
- McAllister Drive Land Bridge – An embankment fill across the South Valley.
- Ridge Cut Area – A designated borrow site for construction of the McAllister Drive Land Bridge and partial borrow source for Units D-1 through D-4 fills.
- D-1 East Fill Area – A fill area at the east end of Piercy Court in Unit D-1.
- D-5 Fill Areas – Three fill areas in Unit D-5.
- D-5 Cut Area – The cut area adjacent to Kearney Street in Unit D-5.



The grading work began in 1990 in the area of Units D-1 through D-4 and in Units D-6 and D-7 on the Ridge. The earliest grading operation was the excavation of soil from designated cut areas and placement of soil in the designated fill areas.

Grading of Units D-1 through D-4 began in April 1990. An aerial photograph dated May 1990 shows the removal of the surface soils in the D-1 Cut Area and filling of the deep fill areas in the South Fill Area. The Engeo report indicates that grades in the fill area at the date the aerial photograph was taken were approximately 30 feet below finished grades. Mass grading in Units D-1 through D-4 was completed in November 1990.

Construction of the McAllister Drive Land Bridge (referred to in Engeo grading reports as the "east crossing") began mid-June 1990. At that time, the Land Bridge fill elevation was at 39 to 40 feet above MSL, which is approximately 100 feet below the finished grade. The final top finished elevation is about 147 to 160 feet above MSL. Based on Engeo's records (Engeo, 1990c, 1991), fill placement at the east crossing was continuous in the following weeks; fill elevation was in the 60s on June 29, 1990; the 70s by the end of July; and 90s to 100s in mid-August. The last reported activities by Engeo on the Land Bridge were on August 30, 1990. Elevation at that time was 143 to 152 feet above MSL, which is close to the finished grade (Engeo, 1991).

An aerial photograph taken in September 1990 shows the extent of the excavation on the Ridge Cut Area immediately after completion of the Land Bridge. The lateral extent of the excavation was scaled off from the aerial photograph and superimposed on Figure 9. The excavation area is smaller than the pre-remediation excavated area (which remained unchanged from a February 17, 1991 aerial photograph). The September 1990 aerial photograph also shows an area immediately upgradient of the Land Bridge on the north side, extending from the Ridge Cut Area to the valley bottom, which appears to be a ramp for earth-moving equipment hauling fill material to the Land Bridge (Figure 9).

Earth Tech made an estimate of the quantity of material removed from the excavated area shown on the September 1990 aerial photograph (Earth Tech, 2001) by superimposing the September 1990 graded area onto the pre-graded topographic map (Sheet 15, Borrow Site, Bissell & Karn, 1990). An approximate quantity of 200,000 cubic yards (cy) was calculated to have been excavated from the area (the same quantity estimated for creating the Land Bridge [200,000 cy]). This information indicates that all material excavated from the September 1990 graded area (including the entire Dynamite Burn Site) was placed in the McAllister Drive Land Bridge.



As the Dynamite Burn Site is situated toward the southeast end of the Ridge Cut Area, closest to the Land Bridge, it would have been excavated during the early stages of bridge construction and therefore, most likely placed in or near the bottom portion of the Land Bridge. Subsequent OE clearance activities support this belief.

Following completion of the Land Bridge, an additional amount (approximately 400,000 cy) of material was excavated from the Ridge Cut Area. The original estimate of the total amount of excavation from the Ridge Cut Area was approximately 600,000 cy (Sheet 15, Grading Plan Borrow Site, Southampton Units D-1, D-2, D-3, and D-4, Bissell and Karn, 1990). The Engeo grading report indicates continued fill placement in both the South and West Fill areas from September through November 1990. This report also indicated that, at the time of completion of the Land Bridge, two deep fill areas remained to be completed. These areas included the D-1 East Fill Area around Piercy Court and a portion of the South Fill Area. Figure 11 shows the areas that were completed before September 1990; those areas not shaded within D-1 through D-4 are the areas that received fill after September 1990.

Based on a review of aerial photographs, grading activities in Unit D-5 began after June 21, 1991 and were completed by September 3, 1993. Since the filling in D-5 began after completion of borrow operations in Units D-1 and D-4 and on the Ridge, it is concluded that surface soils potentially containing OE were not used as fill in Unit D-5.

5.5.3 Discussion of Earth Movement Potentially Containing OE Energetic, OE Like and OE Scrap On and Off-Site

As previously indicated, a large portion of the soil on the Ridge that likely contained OE Energetic, OE Like, and OE Scrap was graded early in the process of borrowing soil materials from the Ridge and placed in the Land Bridge. The presence of OE Energetic, OE Like, and OE Scrap in the slopes of the Land Bridge was confirmed during OE clearance operations on the Land Bridge. Horizontal layers of OE materials were mapped in the slopes of the Land Bridge. These anomalous areas were excavated to a maximum depth of 2 feet, at which point they were backfilled with clean material. A wire mesh barrier was then placed over the Land Bridge slopes to deny access. The extent of the Ridge Cut associated with the Land Bridge construction is shown on Figure 9.

Following the removal of approximately 200,000 cy of material that was used in the Land Bridge construction, the Ridge Borrow Site was an exposed bedrock area with a thin mantle of soil on the northern and southern slopes within the potential distance that OE Energetic, OE Like, and OE Scrap were kicked-out of the demolition sites. Of the 400,000 cy of material cut from the



Ridge after the Land Bridge construction, it is estimated that approximately 2 percent of the borrow material (8,000 cy) potentially contained OE materials. In calculating this volume, it was assumed OE would have potentially been present in the upper 1 foot of the soil mantle on the slopes within the Kick-Out Radius. This assumption is conservative with regard to the depth of OE items that have been recovered on the Project Site. The actual depths have, in nearly all cases, been shallower with the exception of the Demolition sites and graded or recent landslide areas where OE items have been found at greater depths. Figure 10 shows the second phase of excavation on the Ridge and the slope areas associated with the kick-out radius from the demolition sites. It should be noted that the western end of the Ridge, which is the farthest from the fill area, is also where most of the soil was generated from the second phase of cutting, and was outside of the kick-out radius; therefore, it is most likely that soil did not contain OE items. The last area to be filled (November 1 through November 26, 1990) was Unit D-2 (i.e., the area of the Villas). Based on typical grading practices, the grading contractor, when borrowing material from the Ridge, would work from the closest area and carry the excavation only as far away from the work area as necessary. This practice minimizes the costs to the contractor and reduces the time required to grade the project. Based on this method, the borrow source for Unit D-2 may have been the area on the Ridge outside the kick-out radius and least likely to contain OE.

As shown on Figure 10, soil containing OE Energetic, OE Like, and OE Scrap could have potentially been excavated from the Ridge Area and the northern portion of Units D-1 and D-4 parcels within a Kick-Out Radius of the demolition sites. Northgate estimates that the volume of soil potentially containing OE materials from this area is less than 2 percent of the approximately 1,500,000 cy of material borrowed from this region. As noted in previous estimates, this percentage is based on the OE materials being present in the upper 1 foot of the soil mantle in areas within the Kick-Out Radius.

The above topics are discussed in greater detail in Section 5.5 (Risk Assessment) of this CMP.

5.5.4 Findings and Conclusions Regarding Earth Movement and OE Energetic, OE Like and OE Scrap Assessment

5.5.4.1 General

It is known that a large portion of the surface soil from the Ridge that potentially contained OE items was used to construct the on-site McAllister Street Land Bridge. As previously stated, OE clearance actions confirmed the presence of OE in the Land Bridge. In lieu of removing the entire Land Bridge, and with the concurrence of DTSC, a wire mesh barrier was installed during



remediation that renders metal detectors useless and prevents digging into the Land Bridge. The barrier will be monitored and maintained as part of post-remediation monitoring and maintenance of the Project Site.

The soil that potentially contained OE from the second phase of the Ridge cut and the D-1 and D-4 borrow areas represents approximately 1 percent of the 3,100,000 cubic yards of fill used to construct the fill areas in Units D-1 through D-4. If such fill contained OE, the potential for residents to come in contact with OE would be very low due to the procedures used to grade Units D-1 through D-4, as discussed below.

There are several significant findings that support the conclusion that OE Energetic items potentially moved off-site either do not exist on residential property or are at such depths to make the items inaccessible to homeowner activities. At the time of grading, it was known that surface soil in the Benicia area contained higher than normal concentrations of lead. The source of lead was reportedly from past smelting operations that occurred upwind of Benicia. It was required by the grading plans for Units D-1 through D-4 (in Note 18 on Sheet 3) that the near-surface soils be removed and deposited as "deep fill." When interviewing the grading contractor staff, deep fill was defined as being 20 feet or deeper. The grading contractor stated that surface soils would have been placed in the deep fills as required by the Plans and also for geotechnical engineering reasons.

Northgate's review of the May 1990 aerial photograph shows that the surface soils in the northern portion of D-1 were being excavated and placed as fill in the deep fill areas of Units D-1 and D-2 (South Fill Area). This area represents a major portion of the surface area that potentially contained OE Energetic, OE Like, or OE Scrap.

OE clearance operations in the South Valley of the Project Site show that no OE Energetic, OE Like, or OE Scrap was found on the South Valley slopes of the west fill area, which includes the slopes to the north of Unit D-4 along Panorama Drive and the Rose Drive Land Bridge. This suggests that materials used for fill in these areas did not contain OE.

Grading in Unit D-5 occurred after June 1991 and all soil movement from the Ridge and D-1 and D-4 areas was completed prior to that date. Therefore, it is concluded that the Ridge Cut Area and the D-1 Cut Area were not used as borrow sources during the grading of Unit D-5. It is Northgate's opinion that there is no OE Energetic, OE Like, or OE Scrap present in the fill areas in D-5.



Fill soils that were placed in 1990 in the Unit D-1 East Fill Area within the limits of the residential areas and in Sector 3 adjacent to Unit D-1 on the Project Site (Figure 9) have been excavated and the areas backfilled with OE-free materials as part of the remediation project. Materials removed as part of remedial activities from Sector 3 were processed for clearance of potential OE by sifting or spread-and-scan methodology.

The OE clearance experience during the Tourtelot Cleanup Project in areas near to existing residential properties (such as the Unit D-1 Cut Area) indicate that residential properties probably contain a very large number of small non-ordnance related metal items (i.e., nails, rebar, wire, metal strapping, or other construction debris). These items made clearance of the Unit D-1 Cut Area where bedrock was exposed very difficult and time consuming.

Prior to discovering OE on the Project Site, the Site was used by the public for walking, hiking, biking, "four wheeling" and other recreational uses. During the 32-year period from 1964 through the late fall of 1996, no incidents of ordnance finds or accidents related to ordnance were reported. However, during recent remediation, one piece of ordnance was recovered north of Rose Drive on the Project Site in Unit D-1. This area was cut in 1990 to a depth of 25 feet to reach design grades most of the cut into bedrock. Based on this fact, it most likely appears that an individual of the general public placed the item in this area. No other ordnance related items were recovered from the Unit D-1 cut area.

OE items recovered during OE clearance actions on the Project Site show no evidence of having been fired or deployed with the intent to function as designed allows them to be categorized as somewhat less hazardous than items found on impact range sites. More than 99 percent of the OE Energetic items recovered on the Project Site were in a condition allowing them to be picked up, transported, and stored prior to destruction in the Donovan Blast Chamber or the planned demolition pit.

For the past 13 years, the residential properties within Units D-1 through D-4 have been occupied, landscaped, and enjoyed by homeowners. During this period, only one item of OE Scrap, and no OE Energetic items, has been reported to be found in these areas.

The above issues are discussed in greater detail in Section 5.5.5 (Risk Assessment) of this CMP.



5.5.4.2 Conclusion Regarding Off-Site OE Scrap Find

A review of the project grading plans indicate that the Columbia Circle lot on which the piece of OE Scrap was found was a cut-and-fill lot where minimal grading was performed. In the specific area where the item was located, the plans indicate a fill slope with several feet of fill. The area was altered since the lot was graded by the construction of two small terrace retaining walls. The OE Scrap item was reportedly recovered from the upper terrace. It is unclear exactly how the piece of OE Scrap came to be located in the upper terrace. It is possible that the piece of OE Scrap was moved with fill materials, however, in Northgate's opinion, it is more likely that the piece of OE Scrap was present in the general area of the lot at the time of grading. It was not known at the time the piece of OE Scrap was found, but is now known, that OE Scrap was recovered from distances of 1,200 feet and more from the demolition sites in the North and South Valleys and on the Ridge of the Project Site. Based on this distance, it is quite possible that this specific piece of OE Scrap was thrown out of Demolition Site 1. The piece of OE Scrap may have been moved around during fine grading when lot grades were finalized.

The results of the OE clearance operation on the Project Site show that OE Energetic Items did not travel intact as far from the demolition sites as OE Scrap. OE Energetic items were recovered at distances less than 1,100 feet from the demolition sites. None of Unit D-2, including the Columbia Circle lot, is within a 1,100-foot distance from the demolition sites.

The residences in this area have been occupied for 10 years or more. This is the only ordnance related item that has been reported to been found in residential property adjacent to the Project Site. In Northgate's opinion, it is unlikely that the OE Scrap was moved with fill soils due to the lack of additional OE related material finds. As we know from OE clearance operations on the Land Bridge where soils with OE materials were moved, there was a relatively high density of metal in the soils. The OE related materials, if present, would likely have been encountered by others over the 10-year or more period.

5.5.5 Risk Assessment

In order to assess the potential OE risks associated with movement of soil materials from the Project Site to off-site areas, the USACE and DTSC have recommended that concepts developed by the USCAE, DTSC, and USEPA with public input for the OE risk assessment for Fort Ord be incorporated into this assessment.



The Fort Ord Ordnance and Explosives Risk Assessment Protocol (October 2002) was prepared by Malcolm Pirnie for the USACE. This protocol looked at available risk models and selected the Interim Range Rule Methodology (IR3M) as the model that best met the specific objectives for the Fort Ord Risk Assessment and could be modified to meet the specific conditions at Fort Ord. The Fort Ord model is site-specific, but the model concepts are considered to be applicable to assess OE risks of the Tourtelot Project Site.

The protocol calls for the assessment of four questions:

1. If OE items are present, how likely is it that they would be accessible?
2. How likely is it that someone would be exposed to an OE item?
3. If OE items are present, how hazardous is the OE item?
4. How do the above factors combine to define the OE risk?

5.5.5.1 Accessibility

In order to assess the accessibility of OE items, if present, it is necessary to quantify the following:

1. Is there a potential for an OE item to be present;
2. How deep would the item(s) be?
3. Would someone be digging in the area and how deep would they dig?
4. Is there a potential that the depth of items could be reduced by erosion or other factors?

Possible Presence of OE and Depth – There are areas within Units D-1 through D-4 that have a very low risk of the presence of OE or if OE is present at depths of 20 feet or deeper. These areas include: 1) portions of D-1 through D-4 that were lowered (cut) during grading and do not contain fill; and 2) and portions of fill areas in Units D-1 through D-4 that were fully graded before borrow materials were brought across the Land Bridge. Engeo observed the grading work performed in 1990; their completion report (Engeo, 1991) includes information that can be utilized to assess the areas that were complete by the time the Land Bridge was finished. The areas that meet this very low accessibility category are shown on Figure 11.



The Engeo report also indicates those areas where fill was placed subsequent to completion of the Land Bridge. These areas include portions of Units D-1 through D-4 and include the fill area associated with Piercy Court. The portion of this fill under residential lots was removed as part of the current remediation. Therefore, this area has very low accessibility.

The remainder of the areas filled after completion of the Land Bridge are areas not highlighted on Figure 11. These include: 1) the Unit D-2 Area; 2) two discrete areas north and south of Currey Court; 3) three discrete areas near the end of Watson Court (two of these areas are in the open space and are not shown on Figure 11; see discussion below); and 4) the West Fill Area.

The three areas near the end of Watson Court appear to have been landslide repair areas. It is likely that fill materials used in these areas originated at the repair locations and were not imported from the Ridge. In Northgate's opinion, these areas have very low accessibility.

The exact origin of the materials used as fill for the remaining areas is unknown. It is known that approximately 400,000 cy of fill was imported from the Ridge for fills south of the Land Bridge. Some of these materials were used to construct the sewer bench road and approximately 50,000 cy went into the D-1 East Fill Area that has been removed; the remaining materials were used in the fill areas. Northgate estimates that approximately 2 percent of the borrow material potentially contained OE. In calculating this volume, it was assumed that OE would have potentially been present in the upper 1 foot of the soil mantle on the Ridge slopes. This percentage could be much less since most of the OE items on the Project Site have been recovered from shallower depths.

The fill in the D-1 East Fill Area and South Fill Area were deep fills. In some areas, fill thickness was in excess of 30 feet.

5.5.5.2 Model Accessibility Parameters

Depth Below the Ground Surface

Very Low Accessibility Areas – Areas where accessibility is very low would have a score of 2 as a score of 1 is associated with 100 percent removal of OE.

Remaining Areas – A score of 4 is recommended for the remaining areas. This recommendation is associated with an OE depth below the ground surface of 3 or more feet bgs. This depth is based on the observation that, except for a reported tail fin (piece of OE Scrap) behind Building B in the Villas, no OE Energetic items or additional items of OE Scrap have been reported in the 13 years the areas have been occupied and used by residents (i.e., landscaped, pools dug, fences installed, utilities dug and repaired).



Level of Intrusion

Very Low Accessibility Areas and Remainder of Areas – A score of 3 is recommended. This score is associated with a “moderate intrusion” description and coincides with ground disturbances to a depth of 2 feet bgs. Approximately 2 feet is a normal depth at which trees are planted.

Migration/Erosion Potential

Very Low Accessibility Areas and Remainder of Areas - A score of 1 (i.e., “very stable”) is recommended. The areas are residential in nature, landscaped, and properly drained. No significant erosion or soil loss is expected.

Accessibility Score

Based on the scores recommended above, the Accessibility Score is 1 for both Very Low Accessibility Areas and the Remaining Areas.

5.5.5.3 Model Exposure Parameters

OE Density

Based on the potential contribution area and estimated density potential on the Ridge, the areas filled after August 1990, and depth of the fills, it is recommended that a low OE density score of 2 be utilized for the model. A score of 2 is described as “low OE density” (i.e., <0.1 items/acre).

Intensity of Contact With Soil

The areas are currently occupied residences. If it were assumed that homeowners perform yard work primarily on the weekends, a value of 3 hours per day would give 21 hours per week, or 10+ hours per day on a weekend. This value represents a low intensity of contact and a score of 2.

Frequency of Entry

Frequency is a way of expressing how often individuals enter and spend time on their property. Based on the above discussion, it is anticipated that a resident might spend time in their yard once per week. This frequency corresponds to the term “frequent” and a score of 4. This is the highest score for frequency.



Exposure Score

Based on OE density, intensity, and frequency values, the exposure score is 2.

5.5.5.4 Model OE Hazard Score

Northgate has reviewed the results of OE cleanup for the Project Site and assessed the nature and hazard associated with OE Energetic items that may have been present in the D-1 Cut Area and on the Ridge in the surface soils moved offsite during grading in 1990. Northgate's OE Technical Director has performed this assessment with the following conclusions:

- The intact OE Energetic items all require some type of action/force to arm (i.e. manual arming, setback, centrifugal force, or deceleration); most items require a combination of these actions/forces to arm.
- No OE-Energetic items have been recovered with evidence of having been fired, enabling them to arm and function as designed either by impact, impact inertia, powder train time, or mechanical time. It is highly unlikely that any of the items recovered on this site would function as designed due to simple mishandling.
- Fuses and boosters designed to initiate a main charge contain primary explosives and are more sensitive and susceptible to initiation. They also contain smaller quantities of explosives making them far less hazardous.

Based on these findings, Northgate's OE Technical Director recommends an OE Hazard Classification Score of 1. A score of 1 is associated with the description: "*OE that will cause an injury, or in extreme cases could cause major injury or death, to an individual if functioned by an individuals activities*".

5.5.5.5 Overall OE Risk

The above scores were inserted into the Overall Risk Matrix and the Overall score for the Very Low Accessible Areas and Remainder of the Areas are both "A." This designation is defined as the lowest risk.



5.5.6 Conclusion Regarding Offsite Risk

The goal of the off-site OE evaluation and risk assessment was to address the issues presented in Section 2.4 of the RAP: *“if DTSC concludes that OE was distributed to residential areas outside the Project Site and, as a result, there is a risk that an OE item can be encountered in a manner presenting a significant risk of injury or death, then a plan will be developed to present the proposed response actions.”* The first portion of the question involves the potential for OE items to have been moved off the Project Site. Although there have been no OE Energetic items found offsite in the 14 years since the borrow materials were moved, it is Northgate’s opinion that a potential exists that a small number of OE items were moved offsite during grading operations in 1990. In order to assess the significance of the risk, Northgate has reviewed the Fort Ord Model as suggested by DTSC and the USACE and developed values to input into the model (Section 5.5.5). The results of the model indicate that the offsite risk is in the lowest risk category. Although the model was not designed to assess absolute risk, it does confirm Northgate’s opinion that if OE items were moved offsite during grading, there is the “lowest risk” that an OE item could potentially be encountered in a manner presenting a significant risk of injury or death. Based on this assessment and other available data as discussed in Section 5.5.4, Northgate recommends that DTSC confirm that No Further Action (NFA) is required in the offsite areas to the south and west of the Tourtelot Project Site other than risk communication activities consistent with the former Benicia Arsenal areas and in other areas of the City of Benicia. The proposed communication (Fact Sheet) is provided in Appendix A.

5.5.7 Public Outreach

The outreach program initiated by the USACE for purposes of educating the public and the City of Benicia workers of potential OE risks is continuing. In addition, Pacific Bay Homes will issue and add similar educational materials to its normal mailing list to inform the public of potential OE risks and actions to be taken if ordnance related materials are discovered.



6.0 REFERENCES

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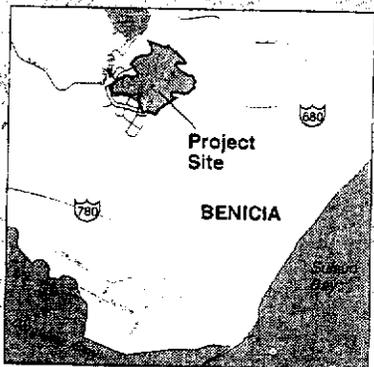
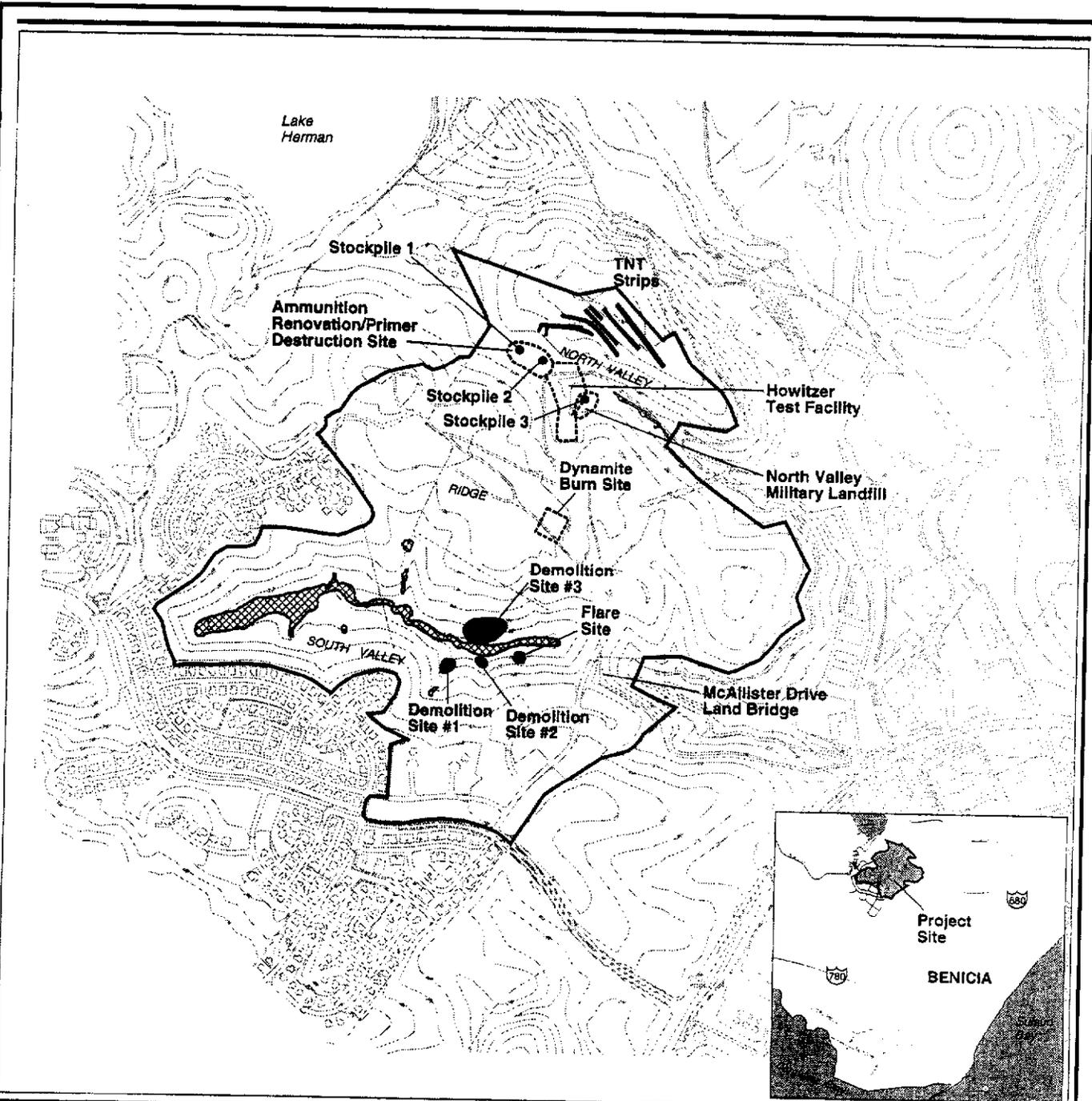


FIGURES

FIGURES



BeniciaOERDD/004



EXPLANATION

- Project Site Boundary
- ▨ Wetlands

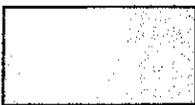


Note: Contour interval equals 25 feet.

FIGURE 1
Site Plan

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Tourtelot Cleanup Project
Benicia, California
June 2004
Proj. No. 7001.00



Wetlands

Figure 2



Tourtlot Site
Benicia, California

Map Created by NAEVA Geophysics, Inc.



Wetlands

Figure 4



Tourtelot Site
Benicia, California

Map Created by NAEVA Geophysics, Inc.



FIGURE 5
1947 AIR PHOTO INTERPRETATION

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management, inc

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Benicia, California
June 2004
Proj. No.7001.00

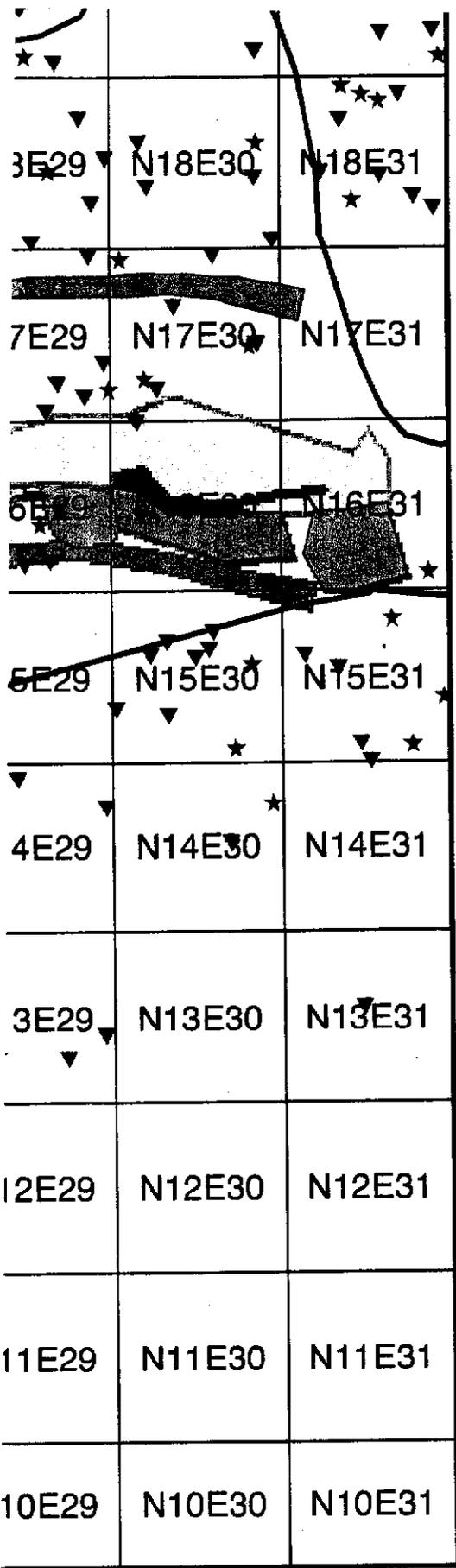


FIGURE 6
1962 AIR PHOTO INTERPRETATION

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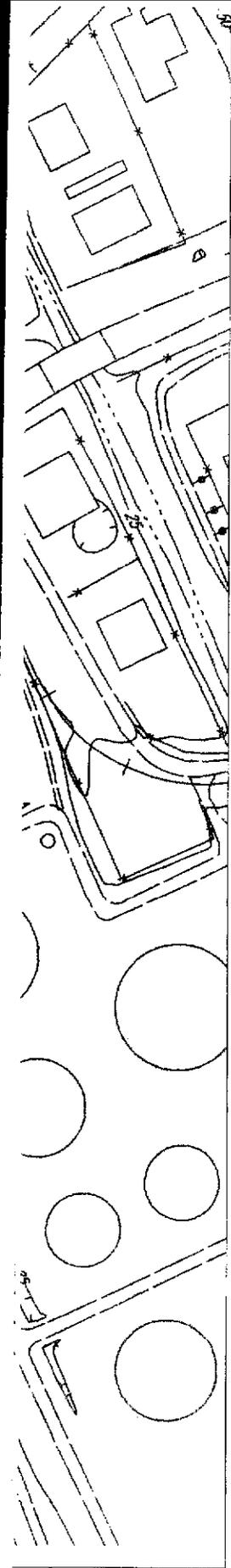
Tourtlot Cleanup Project
Benicia, California
June 2004
Proj. No.7001.00

Figure 8



Tourtelot Site
Benicia, California

Map Created by NAEVA Geophysics



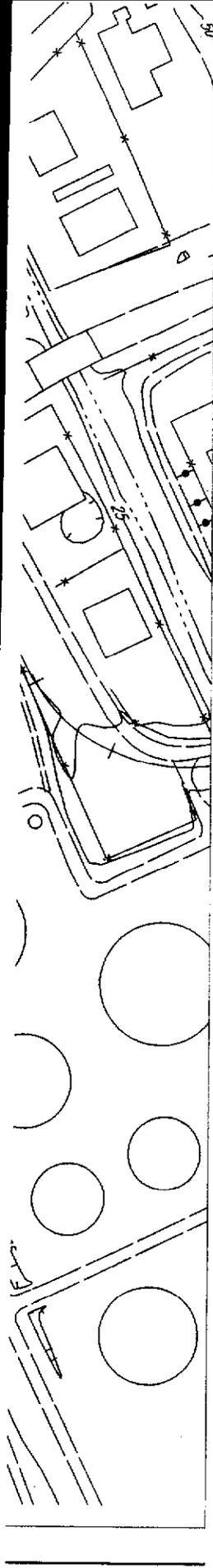
0' 300'
SCALE 1" : 300'

Date of topography July
1998 (Cartwright Aerial)

Figure 9
CUT AND FILL AREAS
INCLUDING UNITS
D-1, D-2, D-3,
D-4, D-6 and D-7

Tourtlot Cleanup Project
Benicia, California
June 2004
Project No. 7001.00

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--- Project Boundary

— 200 — Topographic Contour

0' 300'
SCALE 1" : 300'

Date of topography July
1998 (Cartwright Aerial)

Figure 10
CUT AREAS WITHIN RANGE
OF KICK-OUT RADIUS OF
DEMOLITION SITES 1 & 3
AND SUSPECTED RIDGE
DEMOLITION SITE

Tourtelot Cleanup Project
Benicia, California
June 2004
Project No. 7001.00

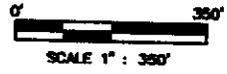


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**UNIT
D-3**

EXPLANATION

- - - Project Boundary
- CUT AREA FREE OF OE AND FILL AREAS COMPLETED PRIOR TO COMPLETION OF THE LAND BRIDGE
- - - Topographic Contour



Date of topography July 1998 (Cartwright Aerial)



Figure 11
CUT AREA FREE OF OE AND FILL AREAS COMPLETED PRIOR TO COMPLETION OF THE LAND BRIDGE

Tourtelot Cleanup Project
Benicia, California
June 2004
Project No. 7001.00



APPENDICS

APPENDIX A



Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1	21-Mar-02	M49 60mm Mortar	N24E37-999	Treated in CDC on 6/19/02	See note b.	1
2	5-Apr-02	M63, with M58 Fuze 37mm Projectile	N25E40-041	BIP on 4/9/02		1
3	15-Apr-02	MK II Hand Grenade, Unfuzed	N17E24-998	Treated in CDC on 6/19/02	See note b.	1
4	16-Apr-02	M127 37mm Flare Candle	N16E22-998	Treated in CDC 6/20/02	See note b.	1
5	18-Apr-02	M54 37mm HESD Projectile w/o Fuze	N26E35-999	Treated in CDC on 6/20/02	See note b.	1
6	18-Apr-02	M79 40mm Flare Candle	N21E33-999	Treated in CDC on 6/20/02	See note b.	1
7	25-Apr-02	M54 37mm HESD Projectile w/M56 Fuze	N12E37-999	BIP 4/26/02	See note b.	1
8	25-Apr-02	M127 37mm Flare Candle	Discovered in OE Like Conex	Treated in CDC on 6/20/02	Conex Grid is: N16E34-801 See note a.	1
9	26-Apr-02	MK II Hand Grenade, Unfuzed	N19E26-999	Treated in CDC on 6/20/02	See note b.	1
10	30-Apr-02	M54 37mm HESD Projectile w/o Fuze	N20E31-999	Treated in CDC on 6/20/02	See note b.	1
11	30-Apr-02	M79 40mm Flare Candle	N16E22-999	Treated in CDC on 6/20/02	See note b.	1
12	9-May-02	Unknown Booster, 10gms Teteryl	N15E28-999	Treated in CDC on 6/20/02	See note b.	1
13	13-May-02	M54 37mm HESD Projectile w/o Fuze	N14E26-999	Treated in CDC on 6/20/02	See note b.	1
14	21-May-02	MK II Hand Grenade, Unfuzed	N14E24-996	Treated in CDC on 6/20/02	See note b.	1
15	21-May-02	M127 37mm Flare Candle	N14E24-999	Treated in CDC on 6/20/02	See note b.	1
16	22-May-02	M127 37mm Flare Candle	N15E28-997	Treated in CDC on 6/20/02	See note b.	1
17	28-May-02	M49 60mm Mortar	N24E37-014	Treated in CDC on 6/20/02		1
18	29-May-02	M49 60mm Mortar	N26E36-011	Treated in CDC on 6/20/02		1
19	29-May-02	M21A1/M24 Booster	N26E36-028	Treated in CDC on 6/20/02		1
20	3-Jun-02	M49 60mm Mortar	N22E44-002	Treated in CDC on 6/20/02		1
21	4-Jun-02	M49 60mm Mortar	N16E41-006	Treated in CDC on 6/20/02		1

Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
22	10-Jun-02	M127 37mm Flare Candle (3) each	N22E35-044	Treated in CDC on 6/20/02		3
23	10-Jun-02	M127 37mm Flare Candle	N22E35-047	Treated in CDC on 6/20/02		1
24	10-Jun-02	M127 37mm Flare Candle	N22E35-011	Treated in CDC on 6/20/02		1
25	10-Jun-02	M49 60mm Mortar low ordered (10g HE)	N22E35-009	Treated in CDC on 6/20/02		1
26	10-Jun-02	M56 Point Detonating Fuze	N22E36-069	Treated in CDC on 6/20/02		1
27	11-Jun-02	Mk IV Fuze	N20E41-016	BIP 6/12/02		1
28	12-Jun-02	M21A1/M24 Booster	N19E38-001	Treated in CDC on 6/20/02		1
29	12-Jun-02	M21A1/M24 Booster	Discovered in OE Like Conex	Treated in CDC on 6/20/02	Conex Grid is: N16E34-802 See note a.	4
30	12-Jun-02	M54 37mm HESD Projectile w/o Fuze	N19E40-004	Treated in CDC on 6/20/02		1
31	12-Jun-02	M54 37mm HESD Projectile w/o Fuze	N18E41-049	Treated in CDC on 6/20/02		1
32	13-Jun-02	M21A1/M24 Booster	N17E38-002	Treated in CDC on 6/20/02		1
33	18-Jun-02	M54 37mm HESD Projectile w/o Fuze	N31E37-003	Treated in CDC on 6/20/02		1
34	24-Jun-02	M54 37mm HESD Projectile w/o Fuze	N33E36-003	Treated in CDC on 7/01/02		1
35	25-Jun-02	M21A1/M24 Booster	N21E18-022	Treated in CDC on 7/01/02		1
36	25-Jun-02	M54 37mm HESD Projectile w/o Fuze	N21E17-015	Treated in CDC on 7/01/02		1
37	27-Jun-02	Mk IV Fuze	N25E22-009	BIP 7/01/02		1
38	1-Jul-02	M21A1/M24 Booster	N26E20-001	Treated in CDC on 7/03/02		1
39	1-Jul-02	M58 Point Detonating Fuze	N22E19-048	Treated in CDC On 7/03/02		1
40	1-Jul-02	M54 37mm HESD Projectile w/M56 Fuze	N22E19-045	BIP 7/03/02		1
41	2-Jul-02	TNT Booster cup	N38E27-031	Treated in CDC on 7/03/02		1
42	2-Jul-02	TNT 4 grams	N39E31-008	Treated in CDC on 7/03/02		1
43	2-Jul-02	M58 Base Fuze	N38E27-015	Treated in CDC on 7/03/02		1

**Northgate Tourtelot Cleanup Project
OE Energetic Life Cycle**

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
44	2-Jul-02	M21A1/M24 Booster	N25E21-032	Treated in CDC on 7/03/02		1
45	3-Jul-02	M204 Fuze, Hand Grenade	N23E22-020	Treated in CDC on 7/25/02	As directed by USACE	1
46	8-Jul-02	M127 37mm Flare Candle	N21E32-010	Treated in CDC on 7/18/02		1
47	8-Jul-02	M127 37mm Flare Candle	N21E32-011	Treated in CDC on 7/18/02		1
48	8-Jul-02	M79 40mm Flare Candle	N20E22-011	Treated in CDC on 7/18/02		1
49	9-Jul-02	M54 37mm HESD Projectile w/o Fuze	N18E32-006	Treated in CDC on 7/25/02		1
50	15-Jul-02	M62 BD Fuze (Partial)	N20E24-012	Treated in CDC on 7/25/02		1
51	15-Jul-02	M49 Mortar boom	N17E32-008	Treated in CDC on 7/18/02	As directed by USACE	1
52	15-Jul-02	M49 Mortar boom	N17E32-011	Treated in CDC on 7/18/02	As directed by USACE	1
53	16-Jul-02	M49 Mortar boom	N17E32-007	Treated in CDC on 7/18/02	As directed by USACE	1
54	16-Jul-02	M53 Fuze with live Detonator	N21E24-057	Treated in CDC on 7/25/02		1
55	16-Jul-02	M21A1/M24 Booster	N16E22-062	Treated in CDC on 7/25/02		1
56	16-Jul-02	M21A1/M24 Booster	N25E24-003	Treated in CDC on 7/25/02		1
57	16-Jul-02	M63 with M58 Fuze 37mm Projectile	N25E24-026	BIP on 7/18/02		1
58	17-Jul-02	M21A1/M24 Booster	N16E22-078	Treated in CDC on 7/25/02		1
59	17-Jul-02	MK I 75mm Shrapnel Round Unfuzed	N16E22-036	Treated in CDC on 7/18/02		1
60	17-Jul-02	M19 WP Rifle grenade (Partial)	N16E36-013	Treated in CDC on 7/18/02		1
61	18-Jul-02	Electric Blasting Cap	N18E26-023	Treated in CDC on 7/25/02		1
62	18-Jul-02	M54 37mm HESD Projectile w/o Fuze	N21E26-024	Treated in CDC on 7/25/02		1
63	22-Jul-02	M204 Grenade Fuze	N14E28-074	Treated in CDC on 7/25/02	As directed by USACE	1
64	22-Jul-02	M53 Fuze, Detonator Only	N21E28-089	Treated in CDC on 7/25/02		1

**Northgate Tourtelot Cleanup Project
OE Energetic Life Cycle**

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
65	22-Jul-02	M54 37mm HESD Projectile w/o Fuze, Low Ordered	N15E31-004	Treated in CDC on 7/25/02		1
66	22-Jul-02	MK III BD Fuze	N15E31-082	Treated in CDC on 7/25/02		1
67	22-Jul-02	M19 WP Rifle Grenade Flashtube	N15E31-013	Treated in CDC on 7/25/02	As directed by USACE	1
68	22-Jul-02	M204 Grenade Fuzes	Discovered in OE Like Conex	Treated in CDC on 7/25/02	Conex Grid is:N16E34-803 See note a.	7
69	23-Jul-02	M204 Grenade Fuzes	N15E30-028	Treated in CDC on 7/25/02	As directed by USACE	1
70	23-Jul-02	M204 Grenade Fuzes	N15E30-087	Treated in CDC on 7/25/02	As directed by USACE	1
71	23-Jul-02	M49 60mm Mortar	N23E37-034	Treated in CDC on 7/25/02		1
72	23-Jul-02	M127 37mm Flare Pellet	N23E37-041	Treated in CDC on 7/25/02		1
73	23-Jul-02	M127 37mm Flare Pellet	N23E37-003	Treated in CDC on 7/25/02		1
74	23-Jul-02	M21A1/M24 Booster	N23E37018	Treated in CDC on 7/25/02		1
75	23-Jul-02	M204 Grenade Fuze	N15E28-003	Treated in CDC on 7/25/02	As directed by USACE	1
76	23-Jul-02	M54 37mm HESD Projectile w/o Fuze, low ordered	N20E30-067	Treated in CDC on 7/25/02		1
77	23-Jul-02	M54 37mm HESD Projectile w/o Fuze	N15E28-128	Treated in CDC on 7/25/02		1
78	23-Jul-02	M54 37mm Projectile Tracer Only	N15E28-028	Treated in CDC on 7/25/02		1
79	24-Jul-02	M53 PD Fuze	N20E31-066	Treated in CDC on 7/25/02		1
80	24-Jul-02	M61A1 75mm AP	N17E28-005	Treated in CDC on 7/25/02		1
81	24-Jul-02	Mk IV PD Fuze	N19E23-049	BIP 7/25/02		1
82	24-Jul-02	M63 Projectile w/M58 Fuze	N19E31-121	BIP 7/25/02		1
83	24-Jul-02	M54 37mm HESD Projectile w/o Fuze	N19E31-001	Treated in CDC on 7/25/02		1
84	24-Jul-02	M21A1/M24 Booster	N18E23-082	Treated in CDC on 7/25/02		1

Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
85	24-Jul-02	M54 37mm HESD Projectile w/M56 Fuze	N17E28-128	BIP 7/25/02		1
86	24-Jul-02	M79 40mm Flare Pellet	N18E23-077	Treated in CDC on 7/25/02		1
87	25-Jul-02	M21A1/M24 Booster	N12E27-073	Treated in CDC on 7/25/02		1
88	25-Jul-02	M54 37mm Projectile Tracer Only	N14E30-005	Treated in CDC on 7/25/02		1
89	25-Jul-02	M58 BD Fuze Detonator Only	N17E16-001	Treated in CDC on 8/1/02		1
90	25-Jul-02	M19 Rifle Grenade w/o Warhead	N17E16-002	Treated in CDC on 8/1/02		1
91	29-Jul-02	M86 57mm AP Projectile	N21E23-091	Treated in CDC on 8/1/02		1
92	29-Jul-02	M1907 PTT Fuze	N20E23-142	Treated in CDC on 8/1/02		1
93	29-Jul-02	M54 37mm HESD Projectile w/o Fuze	N16E14-006	Treated in CDC on 8/1/02		1
94	29-Jul-02	M54 37mm HESD Projectile w/M56 Fuze	N16E17-008	BIP 7/30/02		1
95	29-Jul-02	M63 37mm TP Projectile w/M58 Fuze	N16E18-005	BIP 7/30/02		1
96	29-Jul-02	M204 Grenade Fuze	N20E23-129	Treated in CDC on 8/1/02	As directed by USACE	1
97	29-Jul-02	M204 Grenade Fuze	N20E23-134	Treated in CDC on 8/1/02	As directed by USACE	1
98	29-Jul-02	M204 Grenade Fuze	N20E23-134	Treated in CDC on 8/1/02	As directed by USACE	1
99	29-Jul-02	M204 Grenade Fuze	N18E31-101	Treated in CDC on 8/1/02	As directed by USACE	1
100	30-Jul-02	M21A1/M24 Booster	N21E23-037	Treated in CDC on 8/1/02		1
101	30-Jul-02	M21A1/M24 Booster	N21E23-050	Treated in CDC on 8/1/02		1
102	30-Jul-02	M63 37mm TP Projectile w/M58 Fuze	N21E23-104	BIP 7/30/02		1
103	30-Jul-02	M53 Point Detonating Fuze	N18E33-017	Treated in CDC on 8/1/02		1
104	30-Jul-02	M21A1/M24 Booster	N16E19-029	Treated in CDC on 8/1/02		1

Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
105	30-Jul-02	M54 37mm HESD Projectile w/o Fuze	N19E26-040	Treated in CDC on 8/1/02		1
106	30-Jul-02	M19 Rifle Grenade w/o Warhead	N19E26-030	Treated in CDC on 8/1/02		1
107	30-Jul-02	M500 Series Time Fuze	N19E26-034	Treated in CDC on 8/1/02		1
108	30-Jul-02	M19 Rifle Grenade w/o Warhead (4 ea)	N16E32-003	BIP 8/1/02	As directed by USACE	4
109	30-Jul-02	M19 Rifle Grenade w/o Warhead (2 ea)	N16E32-005	BIP 8/1/02	As directed by USACE	2
110	30-Jul-02	M54 37mm HESD Projectile w/M56 Fuze	N16E19-017	BIP 8/1/02	As directed by USACE	1
111	30-Jul-02	M53 Point Detonating Fuze	N16E19-025	Treated in CDC on 8/1/02		1
112	31-Jul-02	M74 40mm Flare Candle	N22E23-077	Treated in CDC on 8/1/02		1
113	31-Jul-02	M19 Rifle Grenade w/o Warhead	N15E32-032	BIP 8/1/02	As directed by USACE	1
114	1-Aug-02	M21A1/M24 Booster	N29E34-027	Treated in CDC on 8/1/02		1
115	1-Aug-02	M49 81mm Mortar Boom	N29E34-011	Treated in CDC on 8/1/02	As directed by USACE	1
116	1-Aug-02	M49 81mm Mortar Boom	N29E34-016	Treated in CDC on 8/1/02	As directed by USACE	1
117	1-Aug-02	M49 81mm Mortar Boom	N29E34-055	Treated in CDC on 8/1/02	As directed by USACE	1
118	1-Aug-02	M62 Base Detonating Fuze	N15E29-026	Treated in CDC on 8/13/02		1
119	5-Aug-02	M21A1/M24 Booster	N24E35-032	Treated in CDC on 8/13/02		1
120	5-Aug-02	M21A1/M24 Booster	N24E35-059	Treated in CDC on 8/13/02		1
121	5-Aug-02	M21A1/M24 Booster	N24E35-063	Treated in CDC on 8/13/02		1
122	5-Aug-02	M21A1/M24 Booster	Discovered in OE Like Conex	Treated in CDC on 8/13/02	Conex Grid is: N16E34-804 See note a.	1
123	6-Aug-02	M21A1/M24 Booster	N32E29-037	Treated in CDC on 8/13/02		1
124	6-Aug-02	M54 37mm Self Destruct Detonator	N21E40-001	Treated in CDC on 8/13/02		1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
125	7-Aug-02	M54 37mm HESD Projectile w/M56 Fuze	N14E26-010	Treated in CDC on 8/13/02		1
126	7-Aug-02	M58 Fuze, Base Detonating, Projectile	N14E26-085	Treated in CDC on 8/13/02		1
127	7-Aug-02	M54 37mm HESD Projectile w/o Fuze	N14E26-086	Treated in CDC on 8/13/02		1
128	7-Aug-02	MK5 6 Pounder Common Projectile	N14E24-088	Treated in Demo Pit on 8/13/02		1
129	7-Aug-02	M503 Fuze Point Detonating	N23E36-012	Treated in CDC on 8/13/02		1
130	7-Aug-02	M127 Flare Candle Pellet	N23E36-049	Treated in CDC on 8/13/02		1
131	8-Aug-02	M54 37mm HESD Projectile w/o Fuze	N23E35-057	Treated in CDC on 8/13/02		1
132	26-Aug-02	M54 37mm HESD Projectile Unfuzed	N21E39-008	Treated in CDC on 8/29/02		1
133	26-Aug-02	M125 37mm Pellet HC Smoke	N23E35-072	Treated in CDC on 8/29/02		1
134	26-Aug-02	M23 .50 cal Incendiary	N24E45-014	Treated in CDC on 8/29/02		1
135	26-Aug-02	M21A1/M24 Booster	N23E35-042	Treated in CDC on 8/29/02		1
136	26-Aug-02	M21A1/M24 Booster	N23E35-045	Treated in CDC on 8/29/02		1
137	27-Aug-02	M62 Base Detonating Fuze	N37E31-047	Treated in CDC on 8/29/02		1
138	27-Aug-02	M8 Non-Electric Blasting Cap	N26E34-012	Treated in CDC on 8/29/02		1
139	27-Aug-02	M21A1/M24 Booster	N26E34-003	Treated in CDC on 8/29/02		1
140	27-Aug-02	M1 .50 Cal Ball	N35E28-020	Treated in CDC on 8/29/02		1
141	27-Aug-02	M21A1/M24 Booster	N19E33-050	Treated in CDC on 8/29/02		1
142	28-Aug-02	M58 PD Fuze	N22E29-009	Treated in CDC on 8/29/02		1
143	29-Aug-02	M53 PD Fuze	N21E29-026	Treated in CDC on 9/12/02		1
144	29-Aug-02	M21A1/M24 Booster	N21E29-044	Treated in CDC on 9/12/02		1
145	29-Aug-02	M21A1/M24 Booster	N21E29-034	Treated in CDC on 9/12/02		2

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
146	3-Sep-02	Mk IV PD Fuze	N21E30-073	Treated in CDC on 9/12/02		1
147	3-Sep-02	M127 Flare Candle Pellet	N20E33-008	Treated in CDC on 9/12/02		1
148	3-Sep-02	M86E1 Point Detonating Projectile Fuze	N21E30-001	Treated in CDC on 9/12/02		1
149	3-Sep-02	M77 Towed Flare Component (quick match)	N26E34-049	Treated in CDC on 9/12/02		1
150	4-Sep-02	M54 37mm HESD Projectile w/M56 Fuze	N16E20-092	Treated in CDC on 9/12/02		1
151	4-Sep-02	M77 Towed Flare Component (quick match)	N12E33-007	Treated in CDC on 9/12/02		1
152	4-Sep-02	M77 Towed Flare Component (quick match)	N26E34-049	Treated in CDC on 9/12/02 CDC		2
153	4-Sep-02	M54 37mm HESD Projectile w/o Fuze	N17E29-088	Treated in CDC on 9/12/02		1
154	5-Sep-02	M54 37mm HESD Projectile w/M56 Fuze	N14E27-047	Treated in CDC on 9/12/02		1
155	5-Sep-02	M54 37mm HESD Projectile w/o Fuze	N17E29-044	Treated in CDC on 9/12/02		1
156	5-Sep-02	M54 37mm Tracer Only	N15E27-053	Treated in CDC on 9/12/02		1
157	5-Sep-02	M21A1/M24 Booster	N16E21-038	Treated in CDC on 9/12/02		1
158	5-Sep-02	M204 Grenade Fuze	N15E27-022	Treated in CDC on 9/12/02	As directed by USACE	1
159	5-Sep-02	MK II Hand Grenade, Unfuzed	N15E27-121	Treated in CDC on 9/12/02		1
160	5-Sep-02	M127 Flare Candle Pellet	N15E27-024	Treated in CDC on 9/12/02 CDC		1
161	5-Sep-02	M525 Point Detonating Fuze	N15E27-062	Treated in CDC on 9/12/02		1
162	5-Sep-02	M525 Point Detonating Fuze	N15E27-019	Treated in CDC on 9/12/02		1
163	5-Sep-02	M79 40mm Flare Candle	N17E29-027	Treated in CDC on 9/12/02		1
164	5-Sep-02	M204 Grenade Fuze	N15E27-030	Treated in CDC on 9/12/02	As directed by USACE	1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
165	5-Sep-02	M21A1/M24 Booster	Discovered in OE Like Conex	Treated in CDC on 9/12/02	Conex Grid is: N16E34-805 See note a.	1
166	5-Sep-02	M204 Grenade Fuze	N17E29-114	Treated in CDC on 9/12/02	As directed by USACE	1
167	5-Sep-02	M204 Grenade Fuze	N15E27-008	Treated in CDC on 9/12/02	As directed by USACE	1
168	5-Sep-02	M54 37mm Tracer Only	N15E27-082	Treated in CDC on 9/12/02		1
169	5-Sep-02	M49 60mm Mortar	N15E27-148	Treated in CDC on 9/12/02 CDC		1
170	9-Sep-02	M56 PD Fuze	N17E30-095	Treated in CDC on 9/12/02		1
171	9-Sep-02	M54 37mm Projectile w/o Fuze	N17E30-033	Treated in CDC on 9/12/02		1
172	9-Sep-02	M49 60mm Mortar	N15E27-133	Treated in CDC on 9/12/02		1
173	9-Sep-02	M21A1/M24 Booster	N15E26-114	Treated in CDC on 9/12/02		1
174	9-Sep-02	M63, with M58 Fuze 37mm Projectile	N17E30-22	BIP 9/10/02		1
175	9-Sep-02	M77 Towed Flare Component (quick match)	N15E26-115	Treated in CDC on 9/12/02		1
176	9-Sep-02	M21A1/M24 Booster	N15E22-056	Treated in CDC on 9/12/02		1
177	9-Sep-02	M57 81mm Mortar WP	N15E26-078	Treated in CDC on 2/5/03	Required Disposal Date: 12/8/02	1
178	9-Sep-02	M1 105mm HE Projectile w/o Fuze	N15E27-157	Treated in CDC on 9/25/02		1
179	11-Sep-02	M54 37mm HESD Projectile w/M56 Fuze	N15E16-019	Treated in CDC on 9/12/02		1
180	11-Sep-02	M54 37mm HESD Projectile w/o Fuze	N15E14-003	Treated in CDC on 9/12/02		1
181	11-Sep-02	M21A1/M24 Booster	N11E21-033	Treated in CDC on 9/12/02		1
182	12-Sep-02	M54 37mm HESD Projectile w/o Fuze	N10E25-024	Treated in CDC on 9/12/02		1
183	17-Sep-02	M21A1/M24 Booster	N16E23-181	Treated in CDC on 9/25/02		1
184	17-Sep-02	M21A1/M24 Booster	N18E40-008	Treated in CDC on 9/25/02		1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
185	17-Sep-02	M21A1/M24 Booster	N18E29-103	Treated in CDC on 9/25/02		1
186	17-Sep-02	M21A1/M24 Booster	N16E23-059	Treated in CDC on 9/25/02		1
187	18-Sep-02	MK II Hand Grenade, Unfuzed	N16E23-025	Treated in CDC on 9/25/02		1
188	18-Sep-02	M54 37mm HESD Projectile w/o Fuze	N16E23-015	Treated in CDC on 9/25/02		1
189	18-Sep-02	M-7 2.36" Rocket HEAT Motor Only	N19E29-014	Treated in CDC on 9/25/02		1
190	19-Sep-02	M21A1/M24 Booster	N24E23-049	Treated in CDC on 9/25/02		1
191	19-Sep-02	M21A1/M24 Booster	N24E23-057	Treated in CDC on 9/25/02		1
192	19-Sep-02	MK II Hand Grenade, Unfuzed	N11E37-010	Treated in CDC on 9/25/02		1
193	19-Sep-02	M77 Towed Flare Component (quick match)	N21E27-032	Treated in CDC on 9/25/02		1
194	23-Sep-02	M54 37mm HESD Projectile w/M56 Fuze	N13E37-003	Treated in CDC on 9/25/02		1
195	23-Sep-02	M19 Rifle Grenade w/o Warhead	N17E34-002	Treated in CDC on 9/25/02	As directed by USACE	1
196	24-Sep-02	M63, with M58 Fuze 37mm Projectile	N16E26-079	Blown In Place 9/25/02		1
197	24-Sep-02	M61 57mm Projectile APHE Unfuzed	N16E26-038	Treated in CDC on 9/25/02C		1
198	24-Sep-02	M58 Point Detonating Projectile Fuze	N16E26-010	Treated in CDC on 9/25/02		1
199	24-Sep-02	MK I 75mm Shrapnel Round Unfuzed	N16E26-050	Treated in CDC on 9/25/02		1
200	24-Sep-02	MK I 75mm Shrapnel Round Unfuzed	N16E26-060	Treated in CDC on 9/25/02		1
201	24-Sep-02	M204 Grenade Fuze	N16E26-049	Treated in CDC on 9/25/02	As directed by USACE	1
202	24-Sep-02	MK II Hand Grenade, Unfuzed	N16E26-042	Treated in CDC on 9/25/02		1
203	24-Sep-02	M19 Rifle Grenade w/o Warhead	Discovered in OE Like Conex	Treated in CDC on 9/25/02	Conex Grid is: N16E34-806 See note a.	1
204	24-Sep-02	M21A1/M24 Booster	N18E36-014	Treated in CDC on 9/25/02		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
205	24-Sep-02	M60 105mm WP Projectile (Residue Only)	N16E26-040	OE Like Conex		1
206	25-Sep-02	M54 37mm HESD Projectile w/M56 Fuze	N12E25-022	Treated in the CDC 10/3/02		1
207	25-Sep-02	M21A1/M24 Booster	N12E25-019	Treated in the CDC 10/3/02		1
208	25-Sep-02	MK 1, 20mm Projectile HE Unfuzed	N16E31-003	Treated in the CDC 10/3/02		1
209	25-Sep-02	M127 Flare Candle Pellet	N18E27-029	Treated in the CDC 10/3/02		1
210	25-Sep-02	M2 Rifle Grenade Smoke (Partial)	N16E29-024	Treated in the CDC 10/3/02		1
211	26-Sep-02	M54 37mm HESD Projectile w/o Fuze	N17E33-038	Treated in the CDC 10/3/02		1
212	26-Sep-02	M127 Flare Candle Pellet	N18E27-015	Treated in the CDC 10/3/02		1
213	26-Sep-02	M127 Flare Candle Pellet	N18E27-016	Treated in the CDC 10/3/02		1
214	26-Sep-02	M127 Flare Candle Pellet	N18E27-009	Treated in the CDC 10/3/02		1
215	26-Sep-02	M204 Grenade Fuze	N18E27-134	Treated in the CDC 10/3/02	As directed by USACE	1
216	30-Sep-02	M204 Grenade Fuze	N17E24-101	Treated in the CDC 10/3/02	As directed by USACE	1
217	30-Sep-02	M204 Grenade Fuze	N17E24-077	Treated in the CDC 10/3/02	As directed by USACE	1
218	30-Sep-02	MK II Hand Grenade, Unfuzed	N17E24-026	Treated in the CDC 10/3/02		1
219	1-Oct-02	75mm APHE w/M1906 Fuze	N10E35-088	BIP 10/03/02		1
220	2-Oct-02	MK II Hand Grenade, Unfuzed	N17E27-106	Treated in the CDC 10/3/02		1
221	2-Oct-02	M63, with M58 Fuze 37mm Projectile,	N11E26-034	Treated in the CDC 10/3/02		1
222	2-Oct-02	M21A1/M24 Booster	N11E26-021	Treated in the CDC 10/3/02		1
223	2-Oct-02	M21A1/M24 Booster	N11E26-051	Treated in the CDC 10/3/02		1
224	2-Oct-02	M21A1/M24 Booster	N11E26-005	Treated in the CDC 10/3/02		1
225	2-Oct-02	MK1 75mm Shrapnel Round Unfuzed	N17E27-060	Treated in the CDC 10/3/02		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
226	2-Oct-02	M49 60mm Mortar Unfuzed	N15E29-116	Treated in the CDC 10/3/02		1
227	2-Oct-02	M58 Point Detonating Fuze	N17E26-057	Treated in the CDC 10/3/02		1
228	2-Oct-02	MK1 75mm Shrapnel Round Unfuzed	N17E26-030	Treated in the CDC 10/3/02		1
229	3-Oct-02	MK II Hand Grenade, Unfuzed	N17E26-044	Treated in the CDC 10/3/02		1
230	3-Oct-02	M58 Point Detonating Fuze	N17E26-090	Treated in the CDC 10/3/02		1
231	3-Oct-02	Mk1 75mm APHE w/M1906 Fuze	N17E26-052	BIP 10/03/02		1
232	3-Oct-02	Mk1 75mm APHE w/M1906 Fuze	N17E26-082	BIP 10/03/02		1
233	3-Oct-02	Mk1 75mm APHE w/M1906 Fuze	N17E26-038	BIP 10/03/02		1
234	3-Oct-02	Mk1 75mm APHE w/M1906 Fuze	N17E26-031	BIP 10/03/02		1
235	3-Oct-02	M63, with M58 Fuze 37mm Projectile	N17E26-031	BIP 10/03/02		1
236	8-Oct-02	M21A1/M24 Booster	Discovered in OE Like Conex	Treated in the CDC 11/14/02	Conex Grid is:N16E34-807 See note a.	1
237	8-Oct-02	M21A1B1 20mm Projectile Incendiary	Discovered in OE Like Conex	11/14/02 Treatment in the CDC	Conex Grid is:N16E34-808 See note a.	1
238	9-Oct-02	M54 37mm HESD Projectile w/M56 Fuze	N15E16-001	Treated in the CDC 11/14/02		1
239	9-Oct-02	M54 37mm HESD Projectile w/o Fuze	N15E19-006	Treated in the CDC 11/14/02		1
240	9-Oct-02	MK II Hand Grenade, Unfuzed	N15E17-010	Treated in the CDC 11/14/02		1
241	9-Oct-02	M54 37mm HESD Projectile w/M56 Fuze	N15E17-001	Treated in the CDC 11/14/02		1
242	9-Oct-02	Mk IV PD Fuze	N14E20-091	Treated in the CDC 11/14/02		1
243	9-Oct-02	M63, w/o Fuze 37mm Projectile	N15E15-001	Treated in the CDC 11/14/02		1
244	10-Oct-02	M21A1/M24 Booster	N12E20-002	Treated in the CDC 11/14/02		1
245	10-Oct-02	MK II Hand Grenade, Unfuzed	N3E26-027	Treated in the CDC 11/14/02		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
246	10-Oct-02	M54 37mm HESD Projectile w/o Fuze	N10E21-14	Treated in the CDC 11/14/02		1
247	10-Oct-02	M54 37mm HESD Projectile w/o Fuze	N10E21-024	Treated in the CDC 11/14/02		1
248	10-Oct-02	M21A1/M24 Booster	N11E20-023	Treated in the CDC 11/14/02		1
249	10-Oct-02	M54 37mm HESD Projectile w/o Fuze	N11E20-001	Treated in the CDC 11/14/02		1
250	10-Oct-02	M54 37mm HESD Projectile w/o Fuze	N11E21-027	Treated in the CDC 11/14/02		1
251	10-Oct-02	M21A1/M24 Booster	N13E21-028	Treated in the CDC 11/14/02		1
252	14-Oct-02	M21A1/M24 Booster	N17E26-103	Treated in the CDC 11/14/02		1
253	14-Oct-02	MK5 6 Pounder Common Projectile	N17E26-063	Treated in the Demo Pit 10/15/02		1
254	14-Oct-02	MK1 75mm Shrapnel Round Unfuzed/Partial	N17E26-070	Treated in the CDC 11/14/02		1
255	14-Oct-02	MK II Hand Grenade, Unfuzed	N17E26-162	Treated in the CDC 11/14/02		1
256	14-Oct-02	Mk1 75mm APHE w/M1906 Fuze	N17E26-083	BIP 10/15/02		1
257	14-Oct-02	Mk1 75mm APHE w/M1906 Fuze	N17E26-074	BIP 10/15/02		1
258	14-Oct-02	MK1 75mm Shrapnel Round Unfuzed	N17E26-034	Treated in the CDC 11/14/02		1
259	14-Oct-02	20mm Cartridge Case w/Powder	N36E28-050	Treated in the CDC 11/14/02		1
260	14-Oct-02	20mm Cartridge Case w/Powder	N36E28-019	Treated in the CDC 11/14/02		1
261	14-Oct-02	M54 37mm HESD Projectile w/M56 Fuze	N9E23-015	Treated in the CDC 11/14/02		1
262	14-Oct-02	Mk1 75mm APHE w/M1906 Fuze	N17E26-073	BIP 10/15/02		1
263	14-Oct-02	Mk1 75mm APHE w/Mk8 Fuze	N17E26-032	BIP 10/15/02		1
264	14-Oct-02	MK II Hand Grenade, Unfuzed	N17E25-007	Treated in the CDC 11/14/02		1
265	15-Oct-02	M77 Towed Flare Component (quick match)	N15E34-007	Treated in the CDC 11/14/02		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
266	16-Oct-02	M77 Towed Flare Component (quick match)	Discovered in OE Like Conex	Treated in the CDC 11/14/02	Conex Grid is:N16E34-809 See note a.	1
267	16-Oct-02	MK II Hand Grenade, Unfuzed	N17E25-147	Treated in the CDC 11/14/02		1
268	16-Oct-02	MK II Hand Grenade, Unfuzed	N17E25-050	Treated in the CDC 11/14/02		1
269	16-Oct-02	MK II Hand Grenade, Unfuzed	N17E25-165	Treated in the CDC 11/14/02		2
270	16-Oct-02	MK II Hand Grenade, Unfuzed	N17E25-084	Treated in the CDC 11/14/02		1
271	16-Oct-02	M63, with M58 Fuze 37mm Projectile	N17E25-178	BIP 10/17/02		1
272	16-Oct-02	MK II Hand Grenade, Unfuzed	N17E25-125	Treated in the CDC 11/14/02		1
273	21-Oct-02	M54 37mm HESD Projectile w/M56 Fuze	N18E28-025	Treated in the CDC 11/14/02		1
274	21-Oct-02	M49 60mm Mortar Partial Fuze	N19E17-020	Treated in the CDC 11/14/02		1
275	21-Oct-02	M9 Rifle Grenade w/ Warhead and Fuze	N15E23-068	Treated in the CDC 11/14/02		1
276	21-Oct-02	M127 Flare Candle Pellet	N18E28-066	Treated in the CDC 11/14/02		1
277	21-Oct-02	MK II Hand Grenade, Unfuzed	N18E28-004	Treated in the CDC 11/14/02		1
278	22-Oct-02	Mk5 Bomb Fuze Booster	N18E28-039	Treated in the CDC 11/14/02		1
279	23-Oct-02	M21A1/M24 Booster	N16E27-009	Treated in the CDC 11/14/02		1
280	23-Oct-02	MK II Hand Grenade, Unfuzed	N16E25-031	Treated in the CDC 11/14/02		1
281	23-Oct-02	M58 Point Detonating Fuze	N16E25-043	Treated in the CDC 11/14/02		1
282	23-Oct-02	M54 37mm HESD Projectile w/o Fuze	N19E28-033	Treated in the CDC 11/14/02		1
283	23-Oct-02	M21A1/M24 Booster	N19E28-035	Treated in the CDC 11/14/02		1
284	24-Oct-02	M43 81mm Mortar HE w/o Fuze	N16E25-003	Treated in the CDC 11/14/02		1
285	24-Oct-02	M54 37mm HESD Projectile w/o Fuze	N16E28-040	Treated in the CDC 11/14/02		1
286	24-Oct-02	M86 57mm APC w/o Fuze	N16E25-033	Treated in the CDC 11/14/02		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
287	24-Oct-02	M58 Base Detonating Fuze	N16E25-033 Same hole as item 286	Treated in the CDC 11/14/02		1
288	24-Oct-02	M63 37mm HE w/M58 BD Fuze	N15E25-060	BIP 10/28/02		1
289	28-Oct-02	MK 164 Rocket Fuze for 5" HAVR	N15E25-141	Treated in the CDC 11/14/02		1
290	5-Nov-02	M21A1/M24 Booster	N21E24-2093	Treated in the CDC 11/14/02		1
291	6-Nov-02	M21A1/M24 Booster	N23E24-2011	Treated in the CDC 11/14/02		1
292	6-Nov-02	M21A1/M24 Booster	N23E24-2015	Treated in the CDC 11/14/02		1
293	6-Nov-02	M21A1/M24 Booster	N21E22-2008	Treated in the CDC 11/14/02		1
294	7-Nov-02	Mk 44 Auxiliary Detonating Fuze	N37E27-2056	Treated in the CDC 11/14/02		1
295	7-Nov-02	M21A1/M24 Booster	Discovered in OE Like Conex	Treated in the CDC 11/14/02	Conex Grid is:N16E34-810 See note a.	1
296	7-Nov-02	M204 Grenade Fuze	Discovered in OE Like Conex	Treated in the CDC 11/14/02	Conex Grid is:N16E34-811 See note a.	1
297	11-Nov-02	M21A1/M24 Booster	N20E23-2059	Treated in the CDC 11/14/02		1
298	11-Nov-02	M21A1/M24 Booster	N20E23-2064	Treated in the CDC 11/14/02		1
299	11-Nov-02	Mk IV Point Detonating Fuze	N20E24-2049	Treated in the CDC 11/14/02		1
300	11-Nov-02	M56 Point Detonating Fuze	N20E24-2089	Treated in the CDC 11/14/02		1
301	11-Nov-02	M21A1/M24 Booster	N11E25-2033	Treated in the CDC 11/14/02		1
302	12-Nov-02	Mk IV Point Detonating Fuze	N19E22-2014	Treated in the CDC 11/14/02		1
303	13-Nov-02	M52 Base Detonating Fuze	N19E24-2009	Treated in the CDC 11/14/02		1
304	13-Nov-02	M58 Base Detonating Fuze	N19E24-2012	Treated in the CDC 11/14/02		1
305	13-Nov-02	Mk IV Point Detonating Fuze	N19E23-2090	Treated in the CDC 11/14/02		1
306	19-Nov-02	Mk IV Point Detonating Fuze	N19E26-0091	Treated in the CDC 12/5/02		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
307	19-Nov-02	M21A1/M24 Booster	N19E26-0084	Treated in the CDC 12/5/02		1
308	20-Nov-02	M79 40mm Flare Candle	N14E20-2007	Treated in the CDC 12/5/02		1
309	2-Dec-02	MK II Hand Grenade, Unfuzed	N18E26-131	Treated in the CDC 12/5/02		1
310	2-Dec-02	M63 37mm HE w/o Fuze	N18E26-075	Treated in the CDC 12/5/02		1
311	2-Dec-02	M63 37mm HE w/o Fuze	N18E26-049	Treated in the CDC 12/5/02		1
312	2-Dec-02	M63 37mm HE w/M58 BD Fuze	N18E26-101	BIP 12/5/02		1
313	2-Dec-02	M58 Base Detonating Fuze	Found in OE Like Conex	Treated in the CDC 12/5/02	Conex Grid is:N16E34-812 See note a.	1
314	3-Dec-02	M21A1/M24 Booster	N22E38-2047	Treated in the CDC 12/5/02		1
315	4-Dec-02	M79 40mm Flare Candle	N18E24-2146	Treated in the CDC 12/5/02		1
316	4-Dec-02	M58 Base Detonating Fuze	N18E24-2108	Treated in the CDC 12/5/02		1
317	4-Dec-02	MK II Hand Grenade, Unfuzed	N18E31-2136	Treated in the CDC 12/5/02		1
318	4-Dec-02	M54 37mm HESD Projectile w/o Fuze	N18E31-2169	Treated in the CDC 12/5/02		1
319	5-Dec-02	M54 37mm HESD Projectile w/o Fuze	N18E31-2015	Treated in the CDC 12/12/02		1
320	9-Dec-02	M21A1/M24 Booster	N21E30-2123	Treated in the CDC 12/12/02		1
321	10-Dec-02	Mk IV Point Detonating Fuze	N14E27-2007	Treated in the CDC 12/12/02		1
322	10-Dec-02	M21A1/M24 Booster	N21E30-2035	Treated in the CDC 12/12/02		1
323	10-Dec-02	MK II Hand Grenade, Unfuzed	N14E27-2080	Treated in the CDC 12/12/02		1
324	11-Dec-02	M56 Point Detonating Fuze	N15E27-2084	Treated in the CDC 12/12/02		1
325	11-Dec-02	M21A1/M24 Booster	N21E29-2051	Treated in the CDC 12/12/02		1
326	12-Dec-02	M56 Point Detonating Fuze	N20E29-2031	Treated in the CDC 1/8/03		1
327	16-Dec-02	M9 Rifle Grenade Warhead w/o Fuze	N19E32-2047	Treated in the CDC 1/8/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
328	17-Dec-02	M21A1/M24 Booster	N18E29-2050	Treated in the CDC 1/8/03		1
329	18-Dec-02	MK II Hand Grenade, Unfuzed	N17E27-2162	Treated in the CDC 1/8/03		1
330	18-Dec-02	M79 40mm Flare Candle	N17E27-2087	Treated in the CDC 1/8/03		1
331	18-Dec-02	M21A1/M24 Booster	N20E31-2138	Treated in the CDC 1/8/03		1
332	18-Dec-02	M525 Point Detonating Fuze	N20E31-2097	Treated in the CDC 1/8/03		1
333	18-Dec-02	M21A1/M24 Booster	N20E31-2098	Treated in the CDC 1/8/03		1
334	18-Dec-02	M54 37mm HESD Tracer Only	N20E31-2189	Treated in the CDC 1/8/03		1
335	19-Dec-02	M63 37mm HE w/o Fuze	N15E28-2133	Treated in the CDC 1/8/03		1
336	30-Dec-02	M57 Point Detonating Fuze	N15E28-2094	Treated in the CDC 1/8/03		1
337	30-Dec-02	M58 Base Detonating Fuze	N13E24-2025	Treated in the CDC 1/8/03		1
338	2-Jan-03	M21A1/M24 Booster	N20E27-2221	Treated in the CDC 1/8/03		1
339	2-Jan-03	M21A1/M24 Booster	N19E30-2099	Treated in the CDC 1/8/03		1
340	2-Jan-03	M21A1/M24 Booster	N16E17-2011	Treated in the CDC 1/8/03		1
341	2-Jan-03	M21A1/M24 Booster	N17E13-2008	Treated in the CDC 1/8/03		1
342	6-Jan-03	MK II Hand Grenade, Unfuzed	N17E27-2256	Treated in the CDC 1/8/03		1
343	6-Jan-03	Mk1 75mm APHE w/M1906 Fuze	N17E27-2257	BIP 1/8/03		1
344	7-Jan-03	MK II Hand Grenade, Unfuzed	N13E25-2126	Treated in the CDC 1/8/03		1
345	7-Jan-03	M49 60mm Mortar	N18E30-2006	Treated in the CDC 1/8/03		1
346	8-Jan-03	M63 37mm HE w/o Fuze	N30E31-2049	Treated in the CDC 1/20/03		1
347	14-Jan-03	M525 Point Detonating Fuze	N20E28-2043	Treated in the CDC 1/20/03		1
348	14-Jan-03	M49 60mm Mortar	N17E27-2223	Treated in the CDC 1/20/03		1
349	14-Jan-03	Mk5 Bomb Fuze Booster	N17E27-2177	Treated in the CDC 1/20/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
350	14-Jan-03	MK II Hand Grenade, Unfuzed	N17E27-2173	Treated in the CDC 1/20/03		1
351	16-Jan-03	M49 60mm Mortar	N17E27-2078	Treated in the CDC 1/20/03		1
352	16-Jan-03	Mk5 Bomb Fuze Booster	N17E27-2063	Treated in the CDC 1/20/03		1
353	16-Jan-03	MK II Hand Grenade, Unfuzed	N17E27-2055	Treated in the CDC 1/20/03		1
354	28-Jan-03	M21A1/M24 Booster	N21E42-7001	Treated in the CDC2/27/03		1
355	28-Jan-03	M21A1/M24 Booster	N14E22-2004	Treated in the CDC2/27/03		1
356	28-Jan-03	M79 40mm Flare Candle	N21E28-2152	Treated in the CDC2/27/03		1
357	28-Jan-03	M52 Point Detonating Fuze	N21E28-2034	Treated in the CDC2/27/03		1
358	28-Jan-03	M58 Base Detonating Fuze	N21E28-2034	Treated in the CDC2/27/03		1
359	29-Jan-03	M127 Flare Candle Pellet	N20E37-0036	Treated in the CDC2/27/03		1
360	30-Jan-03	M25 Rifle Grenade Smoke High Concentration	RG came from N19E19 Burn Pit	Treated in the CDC2/27/03	Conex Grid is:N16E34-813 See note a.	1
361	30-Jan-03	M127 Flare Candle Pellet	Found in OE Like Conex	Treated in the CDC2/27/03	N16E34-814	3
362	30-Jan-03	M21A1/M24 Booster	Found in OE Like Conex	Treated in the CDC2/27/03	N16E34-815	2
363	30-Jan-03	M58 BD Fuze	Found in OE Like Conex	Treated in the CDC2/27/03	N16E34-816	1
364	30-Jan-03	MK1, 20mm HE w/o Fuze	Found in OE Like Conex	Treated in the CDC2/27/03	N16E34-817	1
365	6-Feb-03	M21A1/M24 Booster	N22E30-0057	Treated in the CDC2/27/03		1
366	6-Feb-03	M21A1/M24 Booster	N24E22-2001	Treated in the CDC2/27/03		1
367	10-Feb-03	M21A1/M24 Booster	N20E25-2092	Treated in the CDC2/27/03		1
368	10-Feb-03	M79 40mm Flare Candle	N15E29-2001	Treated in the CDC2/27/03		1
369	10-Feb-03	M62 Base Detonating Fuze	N15E29-2038	Treated in the CDC2/27/03		1
370	11-Feb-03	M21A1/M24 Booster	N21E28-2077	Treated in the CDC2/27/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
371	11-Feb-03	MK II Hand Grenade, Unfuzed	N17E25-2020	Treated in the CDC2/27/03		1
372	11-Feb-03	MK1 75mm Common w/M1906	N17E25-2006	Treated in the Demo Pit2/27/03		1
373	11-Feb-03	MK1 75mm Common w/M1906	N17E25-2009	Treated in the Demo Pit2/27/03		1
374	11-Feb-03	M1 105mm HE High Capacity/ Partial	N17E25-2163	Treated in the CDC2/27/03		1
375	11-Feb-03	MK1 75mm Common w/M1906	N17E25-2076	Treated in the Demo Pit2/27/03		1
376	12-Feb-03	M58 Base Detonating Fuze	N17E25-2134	Treated in the CDC2/27/03		1
377	12-Feb-03	Mk1 75mm Shrapnel Unfuzed	N17E25-2126	Treated in the CDC2/27/03		1
378	12-Feb-03	MK II Hand Grenade, Unfuzed	N17E25-2165	Treated in the CDC2/27/03		1
379	12-Feb-03	M63 37mm HE w/M58 BD Fuze	N17E26-2044	Treated in the Demo Pit2/27/03		1
380	12-Feb-03	MK-5 Bomb Fuze	N17E26-2157	Treated in the CDC2/27/03		1
381	12-Feb-03	M-7 2.36 Rocket Motor	N15E21-2179	Treated in the CDC2/27/03		1
382	13-Feb-03	MK1 75mm Common w/M1906	N17E26-2038	Treated in the Demo Pit2/27/03		1
383	13-Feb-03	MK1 75mm Shrapnel Round Unfuzed	N17E26-2043	Treated in the CDC2/27/03		1
384	13-Feb-03	M1906 Base Detonating Fuze	N17E26-2043	Treated in the CDC2/27/03		1
385	13-Feb-03	MK1 75mm Common w/M1906	N17E26-2035	Treated in the Demo Pit2/27/03		2
386	13-Feb-03	MK1 75mm Common w/M1906	N17E26-2048	BIP 2/17/03		2
387	13-Feb-03	M1906 Base Detonating Fuze	N17E26-2048	Treated in the CDC2/27/03		1
388	13-Feb-03	M48 Point Detonating Fuze	N17E26-2036	Treated in the CDC2/27/03		1
389	13-Feb-03	M63 37mm HE w/o Fuze	N17E26-2036	Treated in the Demo Pit2/27/03		1
390	13-Feb-03	MK1 75mm Common w/M1906	N17E26-2036	BIP 2/17/03		1
391	13-Feb-03	M63 37mm HE w/M58 BD Fuze	N17E26-2036	BIP 2/17/03		1
392	13-Feb-03	MK II Hand Grenade, Unfuzed	N17E26-2036	Treated in the CDC2/27/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
393	13-Feb-03	M57 81mm WP (Slight Residue Only)	N17E26-2113	Treated in the CDC2/27/03		1
394	13-Feb-03	MK1 75mm Common w/M1906	N17E26-2039	BIP 2/17/03		1
395	13-Feb-03	MK II Hand Grenade, Unfuzed	N17E26-2163	Treated in the CDC2/27/03		1
396	13-Feb-03	M60 105mm WP Unfuzed (Residual)	N17E26-2020	Moved to OE Like Conex		1
397	13-Feb-03	Mk IV Point Detonating Fuze	N15E21-2087	Treated in the CDC2/27/03		1
398	13-Feb-03	MK II Hand Grenade, Unfuzed	N17E26-2037	Treated in the CDC2/27/03		1
399	13-Feb-03	MK II Hand Grenade, Unfuzed	N17E26-2116	Treated in the CDC2/27/03		1
400	13-Feb-03	M63 37mm HE w/M58 BD Fuze	N17E26-2027	Treated in the Demo Pit2/27/03		1
401	18-Feb-03	MK1 75mm Shrapnel Round Unfuzed	N18E25-2002	Treated in the CDC2/27/03		1
402	18-Feb-03	MK II Hand Grenade, Unfuzed	N18E25-2021	Treated in the CDC2/27/03		1
403	18-Feb-03	M63 37mm HE w/M58 BD Fuze	N18E25-2020	Treated in the Demo Pit2/27/03		1
404	18-Feb-03	M21A1/M24 Booster	N29E30-2062	Treated in the CDC2/27/03		1
405	18-Feb-03	M52 Point Detonating Fuze	N15E27-2046	Treated in the CDC2/27/03		1
406	18-Feb-03	M21A1/M24 Booster	N13E29-2030	Treated in the CDC2/27/03		1
407	17-Feb-03	M-7 2.36 Rocket Motor	N16E36-2020	Treated in the CDC2/27/03		4
408	18-Feb-03	Burster for 105mm WP Projectile	Found in OE Scrap Conex	Moved to OE Like Conex	N16E34-818	1
409	18-Feb-03	Tetryl Booster for an M 48 Point Detonating Fuze	Found in OE Scrap Conex	Treated in the CDC2/27/03	N16E34-819	1
410	18-Feb-03	M63 37mm HE w/M58 BD Fuze	Found in OE Scrap Conex	Treated in the CDC2/27/03	N16E34-820	1
411	18-Feb-03	M525 Point Detonating Fuze	N21E27-2004	Treated in the CDC2/27/03		1
412	19-Feb-03	M77 Towed Flare Component (Flare Mixture)	N21E27-2030	Treated in the CDC2/27/03		1
413	19-Feb-03	M54 37mm HESD Projectile w/o Fuze	N18E28-2003	Treated in the CDC2/27/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
414	19-Feb-03	M21A1/M24 Booster	N22E35-2062	Treated in the CDC2/27/03		1
415	19-Feb-03	M525 Point Detonating Fuze	N16E35-2020	Treated in the CDC2/27/03		1
416	20-Feb-03	M54 37mm HESD Projectile w/M52 Fuze	N19E25-2121	Treated in the CDC2/27/03		1
417	20-Feb-03	Mk IV Point Detonating Fuze	N15E21-2194	Treated in the CDC2/27/03		1
418	20-Feb-03	M49 60mm Mortar	N19E25-2139	Treated in the CDC2/27/03		1
419	20-Feb-03	M127 Flare Candle Pellet	N22E36-2111	Treated in the CDC2/27/03		1
420	24-Feb-03	M21A1/M24 Booster	N16E21-2043	Treated in the CDC2/27/03		1
421	24-Feb-03	M-7 2.36 Rocket Motor	N19E25-2063	Treated in the CDC2/27/03		1
422	24-Feb-03	M79 40mm Flare Candle	N19E29-2205	Treated in the CDC2/27/03		1
423	24-Feb-03	M52 Point Detonating Fuze	N19E29-2137	Treated in the CDC2/27/03		1
424	26-Feb-03	M54 37mm HESD Projectile w/o Fuze	N19E27-2052	Treated in the CDC2/27/03		1
425	26-Feb-03	M63 37mm HE w/M58 BD Fuze	N1927-2243	Treated in the Demo Pit2/27/03		1
426	26-Feb-03	M21A1/M24 Booster	N19E18-2008	Treated in the CDC2/27/03		1
427	26-Feb-03	M21A1/M24 Booster	N19E18-2036	Treated in the CDC2/27/03		1
428	26-Feb-03	Mk-IV Point Detonating Fuze	N19E18-2026	Treated in the CDC2/27/03		1
429	5-Mar-03	M86 Point Detonating Fuze	Found in OE Like Conex	Treated in the CDC 4/17/03	N16E34-821	1
430	6-Mar-03	M79 40mm Flare Candle	N18E27-2009	Treated in the CDC 4/17/03		1
431	6-Mar-03	M1906 Base Detonating Fuze	Found in OE Like Conex	Treated in the CDC 4/17/03	N16E34-822	1
432	13-Mar-03	M54 37mm HESD Projectile w/o Fuze	N17E24-2212	Treated in the CDC 4/17/03		1
433	13-Mar-03	Base Fuze for M54, 37mm Projectile	N17E24-2212	Treated in the CDC 4/17/03		1
434	13-Mar-03	M54 PD Fuze	N17N24-2015	Treated in the CDC 4/17/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
435	17-Mar-03	M21A1/M24 Booster	Found in OE Like Conex	Treated in the CDC 4/17/03	N16E34-823	1
436	17-Mar-03	M525 Point Detonating Fuze	Found in OE Like Conex	Treated in the CDC 4/17/03	N16E34-824	1
437	20-Mar-03	M54 37mm HESD Projectile w M56 Fuze	N15E26-2034	Treated in the CDC 4/17/03		1
438	20-Mar-03	M204 Grenade Fuze	N15E26-2040	Treated in the CDC 4/17/03		1
439	24-Mar-03	M21A1/M24 Booster	N11E22-2043	Treated in the CDC 4/17/03		1
440	24-Mar-03	M56 Point Detonating Fuze	N11E22-2013	Treated in the CDC 4/17/03		1
441	26-Mar-03	M54 37mm HESD Projectile	N14E25-2067	Treated in the CDC 4/17/03		1
442	1-Apr-03	M127 Flare Candle Pellet	Found in OE Like Conex	Treated in the CDC 4/17/03	N16E34-825	1
443	8-Apr-03	MK IV PD Fuze	N14E26-2005	Treated in the CDC 4/17/03		1
444	8-Apr-03	Rifle Grenade Fuze	N14E26-2015	Treated in the CDC 4/17/03		1
445	10-Apr-03	M62 Base Detonating Fuze	N16E24-2098	Treated in the CDC 4/17/03		1
446	14-Apr-03	M21A1/M24 Booster	N15E25-2087	Treated in the CDC 4/17/03		1
447	14-Apr-03	M21A1/M24 Booster	N15E25-2062	Treated in the CDC 4/17/03		1
448	15-Apr-03	M49 60mm Mortar	N19E37-2036	Treated in the CDC 4/17/03		1
449	4-Jun-03	M38 Base Detonating Fuze	N22E28	Treated in the CDC 7/25/03	Item from Sector 8	1
450	10-Jun-03	Booster	N31E19	Treated in the CDC 7/25/03	Item from sector 8	1
451	12-Jun-03	Mk1 75mm APHE Unfuzed	N17E26-2515	Treated in the CDC 7/25/03		1
452	12-Jun-03	MK II Hand Grenade, Unfuzed	N17E26-2524	Treated in the CDC 7/25/03		1
453	12-Jun-03	M63 37mm HE w/M58 BD Fuze	N17E26-2521	Treated in the CDC 7/25/03		1
454	12-Jun-03	M525 Point Detonating Fuze	OE Like Conex	Treated in the CDC 7/25/03		1
455	17-Jun-03	M21A1/M24 Booster	N17E24-2227	Treated in the CDC 7/25/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
456	17-Jun-03	M54 Point Detonating Fuze Detonator	N19E29-2576	Treated in the CDC 7/25/03		1
457	23-Jun-03	M21A1/M24 Booster	N15E22-2195	Treated in the CDC 7/25/03		1
458	24-Jun-03	M-8 Blasting Cap	N15E27-2507	Treated in the CDC 7/25/03		1
459	14-Aug-03	MK IV PD Fuze	N17E21	Treated in the CDC 11/11/03	South Valley Real Time	1
460	18-Aug-03	MK II Hand Grenade, Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		1
461	18-Aug-03	MK I, 75mm Shrapnel Round Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		2
462	18-Aug-03	M63, 37mm HE Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		1
463	18-Aug-03	MK 5, 6 Pound w/ MK II Mod 9 BD Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		1
464	18-Aug-03	MK 5, 6 Pound Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		1
465	18-Aug-03	M56, 81mm Mortar, HE, Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/11/03	Positive ID by X-Ray 8/20/03	1
466	18-Aug-03	75mm AP w/M1906 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		2
467	19-Aug-03	M63 37mm HE Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		1
468	19-Aug-03	MK I, 37mm LE Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		1
469	19-Aug-03	MK I, 75mm Shrapnel Round Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		19
470	19-Aug-03	MK I, 75mm Shrapnel w/M1907 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		3
471	19-Aug-03	MK II Hand Grenade, Unfuzed	Demo Pit 3 South Valley	Treated in CDC 11/14/03 & 11/18/03		88
472	19-Aug-03	Detonator, Partial Fuze, M21A1/M24	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		1
473	19-Aug-03	75mm AP w/M1906 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		13
474	19-Aug-03	3" AP w/ MK8 series Fuze(6 Pound)	Demo Pit 3 South Valley	Treated in the CDC 11/11/03		1
475	19-Aug-03	M1906 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		3
476	19-Aug-03	M1907 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		3
477	19-Aug-03	Fuze, Partial (Unknown)	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		2

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
478	19-Aug-03	Bulk HE	Demo Pit 3 South Valley	Treated in the CDC 11/14/03	Loose in soil (2lbs)	1
479	20-Aug-03	MK II Hand Grenade, Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/18/03		44
480	20-Aug-03	MK 5, 6 Pound Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/18/03		1
481	20-Aug-03	M63, 37mm HE w/M58 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/18/03		4
482	20-Aug-03	75mm AP w/M1906 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/18/03		4
483	20-Aug-03	MK I, 75mm Shrapnel w/M1907 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/18/03		2
484	20-Aug-03	MK I, 75mm Shrapnel Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		17
485	20-Aug-03	M1907 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/18/03		3
486	20-Aug-03	M1906 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/18/03		1
487	20-Aug-03	Detonator, Partial Fuze, M21A1/M24	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		4
488	20-Aug-03	M79 40mm Flare Candle	South Slope of South Valley	Treated in the CDC 11/19/03		2
489	20-Aug-03	37mm with HE residue	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		1
490	20-Aug-03	57mm Cartridge Case	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		1
491	21-Aug-03	75mm AP w/M1906 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		1
492	21-Aug-03	MK I, 75mm Shrapnel w/M1907 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		2
493	21-Aug-03	MK I, 75mm Shrapnel Round Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		3
494	21-Aug-03	MK II Hand Grenade, Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		3
495	21-Aug-03	M525 Point Detonating Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		3
496	21-Aug-03	37mm with Cartridge, Complete Round	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		2
497	27-Aug-03	Flare, Signal Marker	N15E31	Treated in the CDC 11/19/03	South Valley Real Time	1
498	2-Sep-03	Fuze, PD Unknown	N15E22	Treated in the CDC 11/19/03	South Valley Real Time	1
499	5-Sep-03	M54, 37mm Unfuzed	N14E29	Treated in the CDC 11/19/03	South Valley Real Time	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
500	6-Sep-03	105mm, Partial/with Residue	Demo Pit 3 South Valley	Treated in the CDC 11/12/03 & 11/13/03	From suspect items cleaned.	18
501	9-Sep-03	M21A1/M24 Booster	N15E22	Treated in the CDC 11/20/03		1
502	9-Sep-03	MK II Hand Grenade, Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/14/03	Demo Pit Real Time	1
503	9-Sep-03	M54, 37mm HESD projectile, no fuze	N15E22	Treated in the CDC 11/19/03		1
504	10-Sep-03	M21A1/M24 Booster	N15E22	Treated in the CDC 11/20/03		1
505	10-Sep-03	M127 Flare Candle Pellet	N15E22	Treated in the CDC 11/20/03		1
506	11-Sep-03	Mk IV Point Detonating Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/20/03		1
507	11-Sep-03	MK II Hand Grenade, Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		3
508	11-Sep-03	PD Fuze, Unknown	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		1
509	11-Sep-03	MK I, 37mm HE Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		1
510	13-Sep-03	MK II Hand Grenade, Unfuzed	Demo Pit 3 South Valley	Treated in the CDC 11/14/03		4
511	13-Sep-03	75mm AP w/M1906 Fuze	Demo Pit 3 South Valley	Treated in the CDC 11/19/03		1
512	16-Sep-03	Mk IV Point Detonating Fuze	N15E23	Treated in the CDC 11/20/03		1
512	16-Sep-03	M127 Flare Candle Pellet	N23E37-9006	Treated in the CDC 11/20/03	Found on QC dig	1
513	24-Sep-03	Mk IV Point Detonating Fuze	N21E22-9008	Treated in the CDC 11/20/03	Found on QC dig	1
514	26-Sep-03	M21A1/M24 Booster	N15E25	Treated in the CDC 11/20/03		2
515	26-Sep-03	M1907 Fuze	N15E25	Treated in the CDC 11/19/03		1
516	27-Sep-03	M127 Flare Candle Pellet	Stockpile 1 Soils	Treated in the CDC 11/20/03	Sifter 1	1
517	30-Sep-03	M127 Flare	N18E32-9005B	Treated in the CDC 11/20/03	Geo QC Dig	1
518	3-Oct-03	M21A1/M24 Booster	Flare Pit Stockpile Spread & Scan	Treated in the CDC 11/20/03		1
519	7-Oct-03	M21A1/M24 Booster	N17E32	Treated in the CDC 11/20/03		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
520	7-Oct-03	40mm Flare Candle	N16E26	Treated in the CDC 11/20/03		1
521	8-Oct-03	M54, 37mm, HE Unfuzed	Flare Halo Soil Stockpile	Treated in the CDC 11/19/03	Sifter 1	2
522	8-Oct-03	M54, 37mm, HE Unfuzed	Sector 2 Soils Stockpile 6	Treated in the CDC 11/19/03	Sifter 2	1
523	9-Oct-03	M54, 37mm, HE Unfuzed	Sector 2 Soils Stockpile 6	Treated in the CDC 11/19/03	Sifter 2	1
524	10-Oct-03	M54, 37 mm, HE Fuzed	Sector 2 Soils Stockpile 6	Treated in the CDC 11/19/03	Sifter 2	1
525	11-Oct-03	M21A1/M24 Booster	N14E22	Treated in the CDC 11/20/03		1
526	14-Oct-03	M127 Flare Candle Pellet	N23E37	Treated in the CDC 11/20/03	Real Time Sweep	10
527	17-Oct-03	75mm AP w/M1906 Fuze	N16E28	Treated in the CDC 11/19/03	Wetlands Area	1
528	24-Oct-03	M54, 37mm, HE Unfuzed	Flare Pit Soil	Treated in the CDC 11/19/03	South Valley Real Time	1
529	25-Oct-03	M54, 37mm, HE Unfuzed	Stockpile 10	Treated in the CDC 11/19/03	Sifter 1	1
530	25-Oct-03	MK II Hand Grenade, Unfuzed	Stockpile 10	Treated in the CDC 11/14/03	Sifter 1	1
531	28-Oct-03	M21A1/M24 Booster	N17E27-1008	Treated in the CDC 11/20/03		1
532	28-Oct-03	M127 Flare Candle Pellet	Sector 6 Area Wide Clearance	Treated in the CDC 11/20/03		8
533	30-Oct-03	M21A1/M24 Booster	N14E22-9056	Treated in the CDC 11/20/03		1
534	30-Oct-03	Mk IV Point Detonating Fuze	N18E24-1003	Treated in the CDC 11/20/03		1
535	31-Oct-03	Mk IV Point Detonating Fuze	Stockpile 6	Treated in the CDC 11/20/03	Sifter 1	1
536	31-Oct-03	M21A1/M24 Booster	N22E36	Treated in the CDC 11/20/03	Area wide clearance	1
537	31-Oct-03	M127 Flare Candle Pellet	N22E35	Treated in the CDC 11/20/03	Area wide clearance	2
538	31-Oct-03	M127 Flare Candle	N22E35	Treated in the CDC 11/20/03	Area wide clearance	1
539	1-Nov-03	M127 Flare Candle Pellet	Demo Pit 1 soils	Treated in the CDC 11/20/03	Sifter 1	1
540	1-Nov-03	M21A1/M24 Booster	Demo Pit 1 soils	Treated in the CDC 11/20/03	Sifter 1	2

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
541	1-Nov-03	M62 Base Detonating Fuze	Demo Pit 1 soils	Treated in the CDC 11/20/03	Sifter 1	1
542	3-Nov-03	M127 Flare Candle Pellet	N22E36	Treated in the CDC 11/20/03	Area wide clearance	1
543	3-Nov-03	M127 Flare Candle Pellet	N23E37	Treated in the CDC 11/20/03	Area wide clearance	1
544	4-Nov-03	MK I, 75mm, HE, Unfuzed	Demo Pit 1 South Valley	Treated in the CDC 11/19/03		3
545	5-Nov-03	MK I, 75mm, HE, Unfuzed	Demo Pit 1 South Valley	Treated in the CDC 11/20/03		11
546	5-Nov-03	Mk IV Point Detonating Fuze	Demo Pit 1 South Valley	Treated in the CDC 11/20/03		1
547	5-Nov-03	Partial Flare Candle	Demo Pit 1 South Valley	Treated in the CDC 11/20/03		1
548	7-Nov-03	M125 Flare Candle	Stockpile 10	Treated in the CDC 11/20/03	Sifter 1	1
549	7-Nov-03	M127 Flare Candle	Stockpile 10	Treated in the CDC 11/20/03	Sifter 1	1
550	8-Nov-03	Propellant Stick (11 grams)	Stockpile 10	Treated in the CDC 11/20/03	Sifter 2	1
551	10-Nov-03	M56, PD Fuze	Stockpile 10	Treated in the CDC 11/20/03	Sifter 1	1
552	11-Nov-03	105mm, HE, Partial/ with Residue	Demo Pit 3 South Valley	11/13,14,21/03 3ea. Treated 2/10/04	From suspect items list	27
553	18-Nov-03	MK II Hand Grenade, Unfuzed	N15E25-1001	Treated in the CDC 11/20/03		1
554	18-Nov-03	MK I, 75mm, HE, Unfuzed	Demo Pit 1	Treated in the CDC 11/20/03	Sifter 1	3
555	18-Nov-03	M54, 37mm, HE Unfuzed	Demo Pit 1	Treated in the CDC 11/20/03	Sifter 1	1
556	18-Nov-03	M127 Flare Candle	Demo Pit 1	Treated in the CDC 11/20/03	Sifter 1	2
557	19-Nov-03	MK I, 75mm, HE, Unfuzed	Demo Pit 1	Treated in the CDC 11/20/03	Sifter 1	1
558	20-Nov-03	Mk IV Point Detonating Fuze	N17E19-1039	Treated in the CDC 2/11/04		1
559	20-Nov-03	MK I, 75mm HE No Fuze	Demo Pit 1	Treated in the CDC 2/10/04	Sifter 1	10
560	20-Nov-03	MK I, 75mm HE, partial No Fuze	Demo Pit 1	Treated in the CDC 2/10/04	Sifter 1	5
561	20-Nov-03	M125, Flare Candle	Demo Pit 1	Treated in the CDC 2/11/04	Sifter 1	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
562	21-Nov-03	MK I, 75mm HE, No Fuze	Demo Pit 1	Treated in the CDC 2/10/04	Sifter 1	1
563	21-Nov-03	Mk IV Point Detonating Fuze	N18E23-1006	Treated in the CDC 2/11/04		1
564	4-Dec-03	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
565	6-Dec-03	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	2
566	6-Dec-03	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	2
567	6-Dec-03	M127 Flare Candle Pellet	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
568	8-Dec-03	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	2
569	8-Dec-03	M127 Flare Candle Pellet	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
570	9-Dec-03	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	3
571	11-Dec-03	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	3
572	12-Dec-03	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
573	12-Dec-03	M58 Base Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
574	13-Dec-03	M127 Flare Candle Pellet	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
575	15-Dec-03	Booster cup with tetryl	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	2
576	15-Dec-03	M1906 Base Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
577	16-Dec-03	MK I, 75mm HE, partial No Fuze	Demo Pit 1	Treated in the CDC 2/11/04		3
578	16-Dec-03	M49 60mm Mortar, partial	Demo Pit 1	Treated in the CDC 2/11/04		1
579	17-Dec-03	MK I, 75mm HE, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04		6
580	17-Dec-03	M125 Flare Candle	Demo Pit 1	Treated in the CDC 2/11/04		1
581	17-Dec-03	M21A1/M24 Booster	Demo Pit 1	Treated in the CDC 2/11/04		1
582	18-Dec-03	MK I, 75mm HE, partial No Fuze	Demo Pit 1	Treated in the CDC 2/11/04		4

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
583	18-Dec-03	MK I, 75mm, HE, No Fuze	Demo Pit 1	Treated in the CDC 2/10/04		3
584	18-Dec-03	Propellant Stick (11 grams)	Demo Pit 1	Treated in the CDC 2/11/04		1
585	18-Dec-03	MK I, 75mm Shrapnel, no fuze	Demo Pit 1	Treated in the CDC 2/11/04		1
586	19-Dec-03	37mm, AP, with tracer	Demo Pit 1	Treated in the CDC 2/11/04		1
587	19-Dec-03	MK I, 75mm, HE, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04		1
588	19-Dec-03	MK I, 75mm HE, partial No Fuze	Demo Pit 1	Treated in the CDC 2/10/04		1
589	19-Dec-03	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
590	19-Dec-03	M21A1/M24 Booster	N15E23	Treated in the CDC 2/11/04		2
591	19-Dec-03	Booster cup with tetryl	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	3
592	19-Dec-03	Base Fuze, Unknown	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1
593	20-Dec-03	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	4
594	23-Dec-03	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
595	23-Dec-03	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
596	29-Dec-03	MK I, 75mm, HE, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1
597	30-Dec-03	MK I, 75mm, HE, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1
598	30-Dec-03	MK I, 75mm HE, partial No Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1
599	30-Dec-03	MK IV Point Detonating Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1
600	30-Dec-03	M21A1/M24 Booster	N16E23	Treated in the CDC 2/11/04	Demo Pit 1, Confirmation	1
601	6-Jan-04	MK I, 75mm, HE, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1
602	6-Jan-04	Propellant Stick (11 grams)	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1
603	7-Jan-04	MK I, 75mm, HE, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
604	7-Jan-04	M127 Flare Candle Pellet	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
605	8-Jan-04	MK I, 75mm, HE, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	2
606	8-Jan-04	MK I, 75mm, HE, Partial, No Fuze	Demo Pit 1	Treated in the CDC 2/11/04	Spread & Scan	2
607	14-Jan-04	M54 37mm, with M56 partial fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
608	14-Jan-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
609	15-Jan-04	Propellant Stick Pieces, (33 grams)	Sector 5 Gap 90	Treated in the CDC 2/11/04		10
610	16-Jan-04	M54, 37mm, HE, no fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
611	19-Jan-04	M54, 37mm, HE, no fuze	N16E29-1012	Treated in the CDC 2/11/04	EM 61 re-visit	1
612	19-Jan-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
613	20-Jan-04	M21A1/M24 Booster	Stockpile 7	Treated in the CDC 2/11/04	Spread & Scan	1
614	20-Jan-04	M56, PD Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
615	21-Jan-04	MK II Hand Grenade, Unfuzed	Sector 6 Area Wide Clearance	Treated in the CDC 2/11/04	confirmation scan	1
616	22-Jan-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
617	26-Jan-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
618	27-Jan-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
619	27-Jan-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
620	27-Jan-04	Propellant Sticks (11 grams each)	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	3
621	28-Jan-04	M125 Flare Candle	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
622	29-Jan-04	M54, 37mm, HE, with M56 Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
623	29-Jan-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
624	4-Feb-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
625	7-Feb-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/11/04	Sifter 1	1
626	7-Feb-04	M21A1/M24 Booster	Area wide area 2 soils	Treated in the CDC 2/11/04	scan in North Valley	1
627	10-Feb-04	75mm APHE, Partial, w/M1906 Fuze	Demo Pit 3 Stockpile	Treated in the CDC 2/19/04		1
628	11-Feb-04	MK I, 75mm Shrapnel, No Fuze	Demo Pit 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
629	11-Feb-04	M125 Flare Candle	Stockpile 8	Treated in the CDC 2/19/04	Sifter 1	1
630	11-Feb-04	MK II, 37mm, HE w/M58 Fuze, unfired	Demo Pit 3 Stockpile	Treated in the CDC 2/19/04		1
631	11-Feb-04	MK IV, Point Detonating Fuze	Demo Pit 3 Stockpile	Treated in the CDC 2/19/04		1
632	11-Feb-04	MK IV, Point Detonating Fuze	Sector 5 Gap 90C	Treated in the CDC 2/19/04		1
633	12-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	69
634	12-Feb-04	105mm, HE, Partial	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
635	12-Feb-04	105mm, HE, Partial	Demo 3 Stockpile	Treated in the CDC 2/19/04		3
636	12-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/19/04		2
637	12-Feb-04	37mm, AP, with tracer	Demo 3 Stockpile	Treated in the CDC 2/19/04		2
638	12-Feb-04	MK II, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/19/04		1
639	12-Feb-04	MK II, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
640	12-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	3
641	12-Feb-04	MK II, 37mm, HE, w/M58 Fuze, unfired	Demo 3 Stockpile	Treated in the CDC 2/19/04		1
642	12-Feb-04	MK II, 37mm, HE w/M58 Fuze, unfired	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	5
643	12-Feb-04	M54, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
644	12-Feb-04	57mm, APHE, No Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	3
645	12-Feb-04	MK I, 75mm Shrapnel w/M1907 Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
646	12-Feb-04	MK I, 75mm Shrapnel No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	7

Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
647	12-Feb-04	MK I, 75mm APHE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		3
648	12-Feb-04	MK I, 75mm, APHE, Partial, No Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
649	12-Feb-04	MK I, 75mm, HE, No Fuze	Demo 3 soils	2ea Treated 2/24/04 3ea Treated 3/2/04	Sifter 2	5
650	12-Feb-04	MK I, 75mm, APHE, w/M1906 Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	5
651	12-Feb-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
652	12-Feb-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
653	12-Feb-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/19/04	Sifter 1	1
654	12-Feb-04	Base Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 2/19/04		1
655	12-Feb-04	M56, PD Fuze	Demo 3 Stockpile	Treated in the CDC 2/19/04		6
656	12-Feb-04	M56, PD Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	2
657	12-Feb-04	MK IV, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	5
658	12-Feb-04	MK IV, Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/19/04	Sifter 1	2
659	12-Feb-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
660	13-Feb-04	MK IV, Point Detonating Fuze	Stockpile 8	Treated in the CDC 2/19/04	Sifter 1	1
661	13-Feb-04	M54, 37mm, HE, No Fuze	Stockpile 8	Treated in the CDC 2/19/04	Sifter 1	1
662	13-Feb-04	M49, 60mm Mortar, HE, No Fuze	Stockpile 8	Treated in the CDC 2/19/04	Sifter 1 Overs	1
663	13-Feb-04	Booster cup with tetryl (M21A1 Booster)	Stockpile 8	Treated in the CDC 2/19/04	Sifter 1 Overs	1
664	13-Feb-04	105mm, HE, Partial No Fuze	Demo 3 soils	Treated in the CDC 2/20/04	Sifter 2	2
665	13-Feb-04	MK II, 37mm, HE, w/M58 Fuze, unfired	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	5
666	13-Feb-04	MK I, 75mm, APHE, w/M1906 Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	2
667	13-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	26
668	13-Feb-04	MK I, 75mm Shrapnel, No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	4

Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
669	13-Feb-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	4
670	13-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	3
671	13-Feb-04	Shrapnel, w/M1907 Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
672	13-Feb-04	MK IV, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	2
673	13-Feb-04	Base Fuze, Unknown	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
674	13-Feb-04	MK10, Base Detonating Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
675	13-Feb-04	57mm, APHE, partial, No Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
676	13-Feb-04	Base Detonating Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	2
677	13-Feb-04	M1906 Fuze	Demo 3 soils	Treated in the CDC 2/19/04	Sifter 2	1
678	13-Feb-04	MK II, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 2/20/04	Sifter 2	3
679	13-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 soils	Treated in the CDC 2/20/04	Sifter 2	3
680	13-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 2/20/04	Sifter 2	1
681	13-Feb-04	MK IV, Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 2/19/04		1
682	13-Feb-04	105mm, HE, Partial	Demo 3 Stockpile	Treated in the CDC 2/20/04		4
683	13-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		7
684	13-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		2
685	13-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		3
686	13-Feb-04	MK II, 37mm, HE, w/M58 Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		2
687	13-Feb-04	PD Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 2/20/04		3
688	13-Feb-04	57mm Cartridge Case	Demo 3 Stockpile	Treated in the CDC 2/20/04		1
689	13-Feb-04	20mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		1
690	13-Feb-04	MK10, Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		4

**Northgate Tourtelot Cleanup Project
OE Energetic Life Cycle**

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
691	13-Feb-04	MK I, 75mm Shrapnel, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		14
692	13-Feb-04	MK I, 75mm APHE, Partial w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		2
693	13-Feb-04	M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		2
694	13-Feb-04	M56 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		14
695	13-Feb-04	M58 Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		2
696	13-Feb-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		4
697	13-Feb-04	MK I, 75mm APHE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		1
698	13-Feb-04	57mm, APHE, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		1
699	13-Feb-04	MK II, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/20/04		4
700	14-Feb-04	M54, 37mm, HE, No Fuze	Stockpile 8	Treated in the CDC 2/20/04		1
701	14-Feb-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 2/20/04		4
702	14-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		4
703	14-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Treated in the CDC 4/1/04		9
704	14-Feb-04	MK II, 37mm, HE, w/M58 Fuze	Demo 3 Stockpile	Treated in the CDC 2/24/04		10
705	14-Feb-04	57mm, APHE, w/ BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/2/04		3
706	14-Feb-04	57mm, APHE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/2/04		1
707	14-Feb-04	MK I, 75mm, Shrapnel, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		10
708	14-Feb-04	MK I, 75mm Shrapnel, w/M1907	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
709	14-Feb-04	MK I, 75mm, APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 2/24/04		4
710	14-Feb-04	MK I, 75mm, APHE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/24/04		5
711	14-Feb-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/4/04		8
712	14-Feb-04	MK II, Hand Grenade, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		24

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
713	14-Feb-04	Base Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 3/2/04		4
714	14-Feb-04	M127 Flare Candle Pellet	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
715	14-Feb-04	Point Detonating Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 3/2/04		4
716	14-Feb-04	M58 Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/2/04		3
717	14-Feb-04	M56, Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/2/04		11
718	14-Feb-04	37mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 2/24/04		1
719	14-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 3/31/04		8
720	14-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 soils	Treated in the CDC 4/1/04		11
721	14-Feb-04	MK II, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 2/24/04		16
722	14-Feb-04	MK II, 37mm, HE, w/M58 Fuze	Demo 3 soils	Treated in the CDC 2/24/04		9
723	14-Feb-04	MK I, 37mm, LE, w/M58 Fuze	Demo 3 soils	Treated in the CDC 3/31/04		1
724	14-Feb-04	M54, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 3/2/04		1
725	14-Feb-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		2
726	14-Feb-04	MK I, 75mm, Shrapnel No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.		5
727	14-Feb-04	MK I, 75mm, Shrapnel w/M1907	Demo 3 soils	Waiting Treatment in the CDC. In SHA.		2
728	14-Feb-04	MK I, 75mm, APHE, w/M1906 Fuze	Demo 3 soils	Treated in the CDC 2/24/04		3
729	14-Feb-04	MK I, 75mm, APHE, Partial, No Fuze	Demo 3 soils	Treated in the CDC 2/24/04		1
730	14-Feb-04	75mm, APHE, Partial w/ Type II BD Fuze	Demo 3 soils	Treated in the CDC 2/24/04		1
731	14-Feb-04	105mm, HE, Partial, No Fuze	Demo 3 soils	Treated in the CDC 2/24/04		4
732	14-Feb-04	Base Fuze, Unknown	Demo 3 soils	Treated in the CDC 3/2/04		5
733	14-Feb-04	Type II, Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		1
734	14-Feb-04	MK IV, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		6

Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
735	14-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04		11
736	14-Feb-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/2/04		1
737	14-Feb-04	MK II, Hand Grenade, No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.		66
738	14-Feb-04	Tracer Element	Demo 3 soils	Treated in the CDC 3/26/04		1
739	14-Feb-04	MK I, 75mm, APHE, w/M1906 Fuze	Demo 3 soils	Treated in the CDC 3/2/04		3
740	14-Feb-04	M1906 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		1
741	14-Feb-04	Point Detonating Fuze, Unknown	Demo 3 soils	Treated in the CDC 3/2/04		2
742	14-Feb-04	MK I, 75mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 2/20/04		2
743	14-Feb-04	57mm, APHE, w/BD Fuze	Demo 3 soils	Treated in the CDC 3/2/04		1
744	14-Feb-04	57mm, APHE, Partial, w/ BD Fuze	Demo 3 soils	Treated in the CDC 3/2/04		1
745	17-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.		2
746	17-Feb-04	M56, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		4
747	17-Feb-04	M525 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		3
748	17-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 3/31/04		1
749	17-Feb-04	Propellant Stick Pieces, (33 grams)	Demo 3 soils	Treated in the CDC 3/25/04		2
750	17-Feb-04	M48, PD Fuze	Demo 3 soils	Treated in the CDC 3/2/04		1
751	17-Feb-04	MK IV, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		3
752	17-Feb-04	MK I, 75mm, APHE, Partial, w/M1906	Demo 3 soils	Treated in the CDC 3/2/04		1
753	17-Feb-04	MK I, 75mm, Shrapnel, No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.		1
754	18-Feb-04	M54, 37mm, HE w/ M56 PD Fuze	N17E29	Treated in the CDC 3/2/04	Gap 35	1
755	18-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.		1
756	18-Feb-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		3

Northgate Tourtelot Cleanup Project OE Energetic Life Cycle

Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
757	18-Feb-04	M525 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		1
758	18-Feb-04	M53 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04		3
759	18-Feb-04	57mm, APHE, partial, No Fuze	Demo 3 soils	Treated in the CDC 3/2/04		2
760	18-Feb-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/2/04		4
761	19-Feb-04	M58 Base Detonating Fuze	South Valley, Data Gap 90	Treated in the CDC 3/2/04		1
762	19-Feb-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 3/2/04	Sifter 1	1
763	19-Feb-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 3/2/04	Sifter 1	1
764	19-Feb-04	Propellant Stick	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	6
765	19-Feb-04	Tracer Element	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
766	19-Feb-04	MK I, 75mm, APHE, Partial, w/M1906	Demo 3 soils	Treated in the CDC 3/2/04	Sifter 2	1
767	19-Feb-04	M55, PTTFuze	Demo 3 soils	Treated in the CDC 3/2/04	Sifter 2	1
768	19-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2	3
769	19-Feb-04	M125 Flare Candle	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
770	19-Feb-04	57mm Cartridge Case	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
771	19-Feb-04	37mm Cartridge Case	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
772	20-Feb-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 3/2/04	Sifter 1	1
773	20-Feb-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 3/2/04	Sifter 1	1
774	20-Feb-04	M56 Point Detonating Fuze	Stockpile 8	Treated in the CDC 3/2/04	Sifter 1	1
775	20-Feb-04	M525 Point Detonating Fuze	Stockpile 8	Treated in the CDC 3/2/04	Sifter 1	2
776	20-Feb-04	MK I, 75mm, Shrapnel, No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	1
777	20-Feb-04	57mm, APHE, Partial, w/BD Fuze	Demo 3 soils	Treated in the CDC 3/2/04	Sifter 2 Overs Scan	1
778	20-Feb-04	MK I, 75mm, APHE, Partial, w/M1906	Demo 3 soils	Treated in the CDC 3/2/04	Sifter 2 Overs Scan	1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
779	20-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	2
780	20-Feb-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04	Sifter 2 Overs Scan	1
781	21-Feb-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 3/2/04	Sifter 1	1
782	21-Feb-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/2/04	Sifter 2	1
783	21-Feb-04	37mm, APT	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
784	21-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2	1
785	21-Feb-04	MK I, 75mm, APHE w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 2/24/04		2
786	21-Feb-04	MK I, 75mm, APHE, Partial, w/M1906	Demo 3 Stockpile	Treated in the CDC 3/2/04		2
787	21-Feb-04	Shrapnell w/M1907 Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
788	21-Feb-04	MK I, 75mm, Shrapnell No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
789	21-Feb-04	57mm, APHE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
790	21-Feb-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/2/04		3
791	21-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		2
792	21-Feb-04	MK II, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		2
793	21-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		5
794	21-Feb-04	M56 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		3
795	21-Feb-04	M1906 Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		1
796	21-Feb-04	MK II, 37mm, HE, w/ M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		1
797	21-Feb-04	105mm Smoke Canister	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
798	23-Feb-04	105mm, HE, Partial, No Fuze	Demo 3 soils	Treated in the CDC 3/4/04	Sifter 2 Overs Scan	1
799	23-Feb-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	2
800	23-Feb-04	MK I, 75mm, APHE, w/M1906	Demo 3 soils	Treated in the CDC 3/2/04	Sifter 2 Overs Scan	1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
801	23-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	1
802	23-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2 Overs Scan	2
803	23-Feb-04	MK IV, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2 Overs Scan	2
804	23-Feb-04	M525 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2 Overs Scan	1
805	23-Feb-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2 Overs Scan	1
806	23-Feb-04	MK I, 75mm, Shrapnel, w/ M1907	Demo 3 stockpile	Waiting Treatment in the CDC. In SHA.		1
807	23-Feb-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		18
808	23-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		29
809	23-Feb-04	MK I, 75mm, APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		6
810	23-Feb-04	MK I, 75mm, APHE, Partial, w/M1906	Demo 3 Stockpile	Treated in the CDC 3/16/04		3
811	23-Feb-04	Base Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 3/16/04		8
812	23-Feb-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		10
813	23-Feb-04	M1906 Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		5
814	23-Feb-04	M1907 Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		3
815	23-Feb-04	M56 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		7
816	23-Feb-04	M525 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		1
817	23-Feb-04	M21A1/M24 Booster	Demo 3 Stockpile	Treated in the CDC 3/16/04		1
818	23-Feb-04	M58 Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		2
819	23-Feb-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/4/04		3
820	23-Feb-04	57mm, APHE, w/ BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		2
821	23-Feb-04	57mm, APHE, partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		2
822	23-Feb-04	MK10, Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
823	23-Feb-04	Base Fuze, Unknown	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	1
824	23-Feb-04	57mm Cartridge Case	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
825	23-Feb-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	2
826	23-Feb-04	MK IV, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	2
827	23-Feb-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	2
828	23-Feb-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
829	23-Feb-04	MK I, 75mm, APHE, Partial, w/M1906	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	1
830	23-Feb-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	2
831	23-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2	1
832	24-Feb-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/4/04		3
833	24-Feb-04	MK I, 75mm APHE, Partial, w/M1906	Demo 3 Stockpile	Treated in the CDC 3/16/04		4
834	24-Feb-04	M1907 Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		3
835	24-Feb-04	M56 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		2
836	24-Feb-04	Mk IV Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		1
837	24-Feb-04	PD Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 3/16/04		1
838	24-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Treated in the CDC 4/1/04		2
839	24-Feb-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		8
840	24-Feb-04	20mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
841	24-Feb-04	155mm Smoke Canister	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
842	24-Feb-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/2/04		1
843	24-Feb-04	Shrapnel, w/M1907 Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		9
844	24-Feb-04	57mm, APHE, w/ BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
845	24-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		28
846	24-Feb-04	57mm, APHE, Partial, w/ BD Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2 Overs Scan	2
847	24-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	2
848	24-Feb-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2 Overs Scan	3
849	24-Feb-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2 Overs Scan	1
850	24-Feb-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	1
851	24-Feb-04	MK I, 37mm, HE, w/M58 BD Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	1
852	24-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	2
853	24-Feb-04	M48, PD Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
854	24-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2	1
855	24-Feb-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	1
856	24-Feb-04	MK II, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	2
857	24-Feb-04	37mm APT	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
858	24-Feb-04	Propellent Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	2
859	24-Feb-04	57mm, APHE, Partial, w/ BD Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
860	24-Feb-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	5
861	24-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2 Overs Scan	1
862	27-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		13
863	27-Feb-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		4
864	27-Feb-04	Base Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 3/25/04		3
865	27-Feb-04	M58 Base Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		2
866	27-Feb-04	M1907 Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		3

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
867	27-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Treated in the CDC 4/1/04		3
868	27-Feb-04	MK I, 75mm APHE, Partial, w/M1906	Demo 3 Stockpile	Treated in the CDC 3/26/04		3
869	27-Feb-04	57mm APHE, w/ BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		2
870	27-Feb-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		3
871	27-Feb-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/4/04		1
872	27-Feb-04	MK I, 75mm APHE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		1
873	27-Feb-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	5
874	27-Feb-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	1
875	27-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2	3
876	27-Feb-04	M48, PD Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
877	27-Feb-04	Booster	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
878	28-Feb-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/16/04		5
879	28-Feb-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		6
880	28-Feb-04	Shrapnel, w/M1907 Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
881	28-Feb-04	MK I, 75mm APHE, Partial, w/M1906	Demo 3 Stockpile	Treated in the CDC 3/25/04		4
882	28-Feb-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		4
883	28-Feb-04	M1907 Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
884	28-Feb-04	M48, PD Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
885	28-Feb-04	M56 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		3
886	28-Feb-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		2
887	28-Feb-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		3
888	28-Feb-04	M21A1/M24 Booster	Stockpile 8	Treated in the CDC 3/25/04	Sifter 1	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
889	28-Feb-04	Booster Supplement	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
890	28-Feb-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2	2
891	28-Feb-04	MK I, 75mm APHE, Partial, w/M1906	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	1
892	28-Feb-04	Shrapnel, w/M1907 Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
893	28-Feb-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
894	28-Feb-04	MK IV, Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	4
895	28-Feb-04	M52 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	3
896	1-Mar-04	57mm APHE, No Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
897	1-Mar-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
898	1-Mar-04	Shrapnel, w/M1907 Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
899	1-Mar-04	MK I, 75mm APHE, Partial, No Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
900	1-Mar-04	MK I, 75mm APHE, Partial, No Fuze	Demo 3 stockpile	Treated in the CDC 3/25/04		1
901	1-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 stockpile	Waiting Treatment in the CDC. In SHA.		1
902	1-Mar-04	M525 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
903	1-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
904	1-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
905	1-Mar-04	Booster, Supplemental	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	4
906	2-Mar-04	MK I, 75mm Shrapnel, No Fuze	Demo 3 stockpile	Waiting Treatment in the CDC. In SHA.		2
907	2-Mar-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 stockpile	Treated in the CDC 3/25/04		2
908	2-Mar-04	MK I, 75mm APHE, Partial, w/M1906	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	2
909	2-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		4
910	2-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	3

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
911	2-Mar-04	M56 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		4
912	2-Mar-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	4
913	2-Mar-04	M1907 Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
914	2-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
915	3-Mar-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Treated in the CDC 4/1/04		1
916	3-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	2
917	3-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		2
918	3-Mar-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
919	3-Mar-04	155mm Smoke Canister	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
920	3-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	3
921	3-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
922	3-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	4
923	3-Mar-04	MK 10, BD Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	2
924	3-Mar-04	M53 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
925	3-Mar-04	M56 Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
926	3-Mar-04	BD Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 3/26/04		2
927	3-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	3
928	3-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
929	3-Mar-04	Propellant Stick (11 grams)	South Valley, Data Gap 90	Treated in the CDC 3/25/04		30
930	3-Mar-04	Shrapnel, w/M1907 Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	1
931	3-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	1
932	3-Mar-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2 Overs Scan	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
933	3-Mar-04	Booster Supplement	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2 Overs Scan	1
934	4-Mar-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
935	4-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
936	4-Mar-04	MK I, 75mm Shrapnel, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
937	4-Mar-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
938	4-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		5
939	4-Mar-04	Mk IV Point Detonating Fuze	Stockpile 8	Treated in the CDC 3/16/04	Sifter 1	1
940	4-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	2
941	4-Mar-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 3/31/04	Sifter 2	1
942	4-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
943	4-Mar-04	Booster Supplement	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
944	4-Mar-04	Propellant Stick (11 grams)	South Valley, Data Gap 90	Treated in the CDC 3/25/04		8
945	4-Mar-04	105mm, HE, Partial, No Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2 Overs Scan	1
946	4-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	3
947	4-Mar-04	M52 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2 Overs Scan	1
948	4-Mar-04	M1906 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2 Overs Scan	1
949	4-Mar-04	Booster Supplement	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2 Overs Scan	1
950	5-Mar-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
951	5-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
952	5-Mar-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
953	5-Mar-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
954	5-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
955	5-Mar-04	Mk IV Point Detonating Fuze	Stockpile 9	Treated in the CDC 3/16/04	Sifter 1	3
956	5-Mar-04	BD Fuze, Unknown	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
957	5-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	2
958	5-Mar-04	M79, 40mm Flare Candle	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	3
959	5-Mar-04	Propellant Stick (11 grams)	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	5
960	5-Mar-04	Booster Supplement	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	5
961	6-Mar-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
962	6-Mar-04	57mm, APHE, No Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
963	6-Mar-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	3
964	6-Mar-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
965	6-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
966	6-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		3
967	6-Mar-04	Mk IV Point Detonating Fuze	Stockpile 9	Treated in the CDC 3/16/04	Sifter 1	5
968	6-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	1
969	6-Mar-04	M53 Point Detonating Fuze	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	1
970	6-Mar-04	M53 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
971	6-Mar-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	3
972	6-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1
973	6-Mar-04	M79, 40mm, Flare Candle	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	2
974	6-Mar-04	M127 Flare Candle Pellet	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	2
975	6-Mar-04	Propellant Stick (11 grams)	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	7
976	6-Mar-04	Booster Supplement	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	1

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977	6-Mar-04	Booster Supplement	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
978	8-Mar-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
979	8-Mar-04	57mm APHE, w/BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
980	8-Mar-04	MK I, 75mm APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		2
981	8-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		6
982	8-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
983	8-Mar-04	Mk IV Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
984	8-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/16/04	Sifter 2	4
985	8-Mar-04	M53 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
986	8-Mar-04	2.36" Rocket Motor	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
987	8-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1
988	8-Mar-04	M127 Flare Candle Pellet	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	4
989	9-Mar-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
990	9-Mar-04	MK I, 37mm, LE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
991	9-Mar-04	57mm APHE, w/BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
992	9-Mar-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
993	9-Mar-04	MK I, 75mm, APHE, w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
994	9-Mar-04	105mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		1
995	9-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
996	9-Mar-04	Mk IV Point Detonating Fuze	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	2
997	9-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
998	9-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	2

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
999	9-Mar-04	Bulk HE, Comp D (15.9 ozs)	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
1000	9-Mar-04	M127 Flare Candle Pellet	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	3
1001	10-Mar-04	M63, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		4
1002	10-Mar-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		3
1003	10-Mar-04	MK I, 75mm APHE, Partial w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
1004	10-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 stockpile	Waiting Treatment in the CDC. In SHA.		9
1005	10-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
1006	10-Mar-04	M56 Point Detonating Fuze	Demo 3 stockpile	Treated in the CDC 3/26/04		1
1007	10-Mar-04	M58 Base Detonating Fuze	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1
1008	10-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	3
1009	10-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
1010	10-Mar-04	M125 Flare Candle	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	1
1011	10-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
1012	10-Mar-04	Propellant Stick (11 grams)	Demo 3 Stockpile	Treated in the CDC 3/25/04		4
1013	10-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2 Overs Scan	2
1014	10-Mar-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2 Overs Scan	1
1015	11-Mar-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		3
1016	11-Mar-04	MK II, 37mm, HE, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
1017	11-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		4
1018	11-Mar-04	Shrapnel, No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
1019	11-Mar-04	Partial w/M1906 Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		2
1020	11-Mar-04	MK 20, 6" Common Projectile	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1021	11-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		16
1022	11-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	3
1023	11-Mar-04	Mk IV Point Detonating Fuze	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	3
1024	11-Mar-04	MK 10, BD Fuze	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1
1025	11-Mar-04	BD Fuze, Unknown	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
1026	11-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	3
1027	11-Mar-04	Propellant Stick (11 grams)	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	2
1028	12-Mar-04	MK I, 37mm, LE, No Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
1029	12-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/26/04		2
1030	12-Mar-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
1031	12-Mar-04	MK I, 75mm APHE, Partial, w/M1906	Demo 3 Stockpile	Treated in the CDC 3/26/04		1
1032	12-Mar-04	105mm, HE, Partial, No Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		2
1033	12-Mar-04	25lb Cooper Bomb	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		1
1034	12-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		10
1035	12-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	4
1036	12-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
1037	12-Mar-04	M127 Flare Candle Pellet	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1038	12-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	7
1039	12-Mar-04	Mk IV Point Detonating Fuze	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 1	1
1040	12-Mar-04	M127 Flare Candle Pellet	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1041	12-Mar-04	Propellant Stick (11 grams)	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 1	4
1042	13-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile	Treated in the CDC 3/31/04		2

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1043	13-Mar-04	57mm Cartridge Case	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1044	13-Mar-04	MK I, 75mm Shrapnel, No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
1045	13-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile	Waiting Treatment in the CDC. In SHA.		2
1046	13-Mar-04	Mk IV Point Detonating Fuze	Demo 3 Stockpile	Treated in the CDC 3/25/04		1
1047	13-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	3
1048	13-Mar-04	Mk IV Point Detonating Fuze	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 1	1
1049	13-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
1050	13-Mar-04	Propellant Stick (11 grams)	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 1	17
1051	15-Mar-04	MK II, 37mm, HE, No Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1052	15-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	4
1053	15-Mar-04	Mk IV Point Detonating Fuze	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1
1054	15-Mar-04	MK IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
1055	15-Mar-04	M1906 Base Detonating Fuze	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1
1056	15-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1
1057	15-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1058	15-Mar-04	M127 Flare Candle Pellet	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	1
1059	15-Mar-04	Propellant Stick (11 grams)	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	6
1060	16-Mar-04	37mm APT	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1061	16-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	4
1062	16-Mar-04	M21A1/M24 Booster	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1063	16-Mar-04	Propellant Stick (11 grams)	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 1	2
1064	16-Mar-04	Propellant Stick (11 grams)	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1065	16-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	1
1066	16-Mar-04	M63, 37mm, HE, No Fuze	From OE Like Conex	Treated in the CDC 3/16/04		1
1067	16-Mar-04	MK II, 37mm, No Fuze	From OE Like Conex	Treated in the CDC 3/16/04		1
1068	16-Mar-04	M1906 Base Detonating Fuze	From OE Like Conex	Treated in the CDC 3/16/04		1
1069	17-Mar-04	MK II, 37mm, HE, No Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/26/04		1
1070	17-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/31/04		1
1071	17-Mar-04	57mm APHE, No Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/26/04		1
1072	17-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile Footprint	Waiting Treatment in the CDC. In SHA.		6
1073	17-Mar-04	Mk IV Point Detonating Fuze	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	3
1074	17-Mar-04	Mk IV Point Detonating Fuze	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 2	1
1075	17-Mar-04	M1906 Base Detonating Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/26/04		1
1076	17-Mar-04	M21A1/M24 Booster	Stockpile 9	Treated in the CDC 3/26/04	Sifter 1	1
1077	17-Mar-04	M127 Flare Candle Pellet	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 2	1
1078	17-Mar-04	Propellant Stick (11 grams)	Stockpile 9	Treated in the CDC 3/25/04	Sifter 1	3
1079	17-Mar-04	Propellant Stick (11 grams)	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 2	1
1080	18-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/31/04		1
1081	18-Mar-04	MK I, 75mm, HE, Partial, No Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1082	18-Mar-04	Mk IV Point Detonating Fuze	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1083	18-Mar-04	M58 Base Detonating Fuze	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 1	2
1084	18-Mar-04	M21A1/M24 Booster	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1085	18-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1086	18-Mar-04	Propellant Stick (11 grams)	South Valley Additional Soil	Treated in the CDC 3/25/04	Sifter 1	4

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1087	18-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	2
1088	19-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 soils	Treated in the CDC 4/1/04	Sifter 2	2
1089	19-Mar-04	MK II, 37mm, HE, w/M58 BD Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 4/1/04		2
1090	19-Mar-04	MK I, 75mm APHE, Partial w/M1906 Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1091	19-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile Footprint	Waiting Treatment in the CDC. In SHA.		1
1092	19-Mar-04	M56 Point Detonating Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/26/04		4
1093	19-Mar-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1094	19-Mar-04	M21A1/M24 Booster	Demo 3 Stockpile Footprint	Treated in the CDC 3/26/04		1
1095	19-Mar-04	M127 Flare Candle Pellet	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1096	20-Mar-04	57mm Cartridge Case	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1097	20-Mar-04	MK I, 75mm Shrapnel, no Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
1098	20-Mar-04	Mk IV Point Detonating Fuze	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1099	20-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1100	20-Mar-04	M54 Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1101	20-Mar-04	M56 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	3
1102	20-Mar-04	M58 Base Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	5
1103	20-Mar-04	M525 Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/25/04	Sifter 2	3
1104	20-Mar-04	M21A1/M24 Booster	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1105	20-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
1106	20-Mar-04	M125 Flare Candle	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1107	20-Mar-04	Booster Supplement	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1108	22-Mar-04	Shrapnel, No Fuze	Demo 3 soils	Waiting Treatment in the CDC. In SHA.	Sifter 2	1

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1109	22-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	2
1110	22-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	1
1111	22-Mar-04	M125 Flare Candle	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1112	22-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 3/26/04	Sifter 2	4
1113	23-Mar-04	Mk IV Point Detonating Fuze	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1114	23-Mar-04	M125 Flare Candle	South Valley Additional Soil	Treated in the CDC 3/26/04	Sifter 1	1
1115	23-Mar-04	Propellant Stick (11 grams)	Stockpile 8 & 9	Treated in the CDC 3/25/04	Sifter 1 Overs	1
1116	23-Mar-04	Booster Supplement	Stockpile 8 & 9	Treated in the CDC 3/26/04	Sifter 1 Overs	2
1117	24-Mar-04	M63, 37mm, HE, No Fuze	Magnet Bin	Treated in the CDC 3/31/04	Sifter 2	3
1118	24-Mar-04	MK I, 37mm, LE, No Fuze	Magnet Bin	Waiting Treatment in the CDC. In SHA.	Sifter 2	6
1119	24-Mar-04	MK II, 37mm, HE, No Fuze	Magnet Bin	Treated in the CDC 3/26/04	Sifter 2	4
1120	24-Mar-04	57mm, APHE, No Fuze	Magnet Bin	Treated in the CDC 3/26/04	Sifter 2	2
1121	24-Mar-04	M49, 60mm Mortar, HE, No Fuze	Magnet Bin	Treated in the CDC 3/25/04	Sifter 2	1
1122	24-Mar-04	MK I, 75mm Shrapnel, no Fuze	Magnet Bin	Waiting Treatment in the CDC. In SHA.	Sifter 2	4
1123	24-Mar-04	Shrapnel, w/M1907 Fuze	Magnet Bin	Waiting Treatment in the CDC. In SHA.	Sifter 2	1
1124	24-Mar-04	MK I, 75mm APHE, Partial w/M1906 Fuze	Magnet Bin	Treated in the CDC 3/26/04	Sifter 2	1
1125	24-Mar-04	Partial w/M1906 Fuze	Magnet Bin	Treated in the CDC 3/26/04	Sifter 2	1
1126	24-Mar-04	Partial, w/M1906 Fuze	Magnet Bin	Treated in the CDC 3/26/04	Sifter 2	1
1127	24-Mar-04	MK I, 75mm, HE, No Fuze	Magnet Bin	Treated in the CDC 3/31/04	Sifter 2	3
1128	24-Mar-04	MK II Hand Grenade, Unfuzed	Magnet Bin	Waiting Treatment in the CDC. In SHA.	Sifter 2	32
1129	24-Mar-04	M1906 Base Detonating Fuze	Magnet Bin	Treated in the CDC 3/25/04	Sifter 2	2
1130	24-Mar-04	BD Fuze, Unknown	Magnet Bin	Treated in the CDC 3/26/04	Sifter 2	2

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1131	24-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile Footprint	Waiting Treatment in the CDC. In SHA.		1
1132	24-Mar-04	Mk IV Point Detonating Fuze	Stockpile 8 & 9	Treated in the CDC 3/26/04	Sifter 1 Overs	1
1133	24-Mar-04	M21A1/M24 Booster	Demo 3 Stockpile Footprint	Treated in the CDC 3/26/04		1
1134	24-Mar-04	M21A1/M24 Booster	Stockpile 8 & 9	Treated in the CDC 3/26/04	Sifter 1 Overs	1
1135	24-Mar-04	Propellant Stick (11 grams)	Stockpile 8 & 9	Treated in the CDC 3/26/04	Sifter 1 Overs	4
1136	24-Mar-04	Booster Supplement	Stockpile 8 & 9	Treated in the CDC 3/26/04	Sifter 1 Overs	1
1137	26-Mar-04	M54, 37mm, HE, No Fuze	Large Overs	Treated in the CDC 3/31/04	Sifter 1	1
1138	26-Mar-04	MK I, 75mm, APHE, Partial w/M1906	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1139	26-Mar-04	MK I, 75mm, HE, Partial, No Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1140	26-Mar-04	Mk IV Point Detonating Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	2
1141	26-Mar-04	Mk IV Point Detonating Fuze	Sector 5	Treated in the CDC 3/31/04	Wetlands	1
1142	26-Mar-04	M53 Point Detonating Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1143	26-Mar-04	M21A1/M24 Booster	Sector 5	Treated in the CDC 3/31/04	Wetlands	2
1144	26-Mar-04	Propellant Stick (11 grams)	Large Overs	Treated in the CDC 3/31/04	Sifter 1	3
1145	26-Mar-04	Propellant Stick (11 grams)	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1146	26-Mar-04	Booster Supplement	Sector 5	Treated in the CDC 3/31/04	Wetlands	2
1147	27-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Overs	Waiting Treatment in the CDC. In SHA.	Sifter 2	2
1148	27-Mar-04	M56 Point Detonating Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	13
1149	27-Mar-04	M58 Base Detonating Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	3
1150	27-Mar-04	M1907 Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1151	27-Mar-04	BD Fuze, Unknown	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1152	27-Mar-04	M21A1/M24 Booster	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	3

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	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
1153	29-Mar-04	MK I, 75mm, HE, Partial, No Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1154	29-Mar-04	Partial, w/M1906 Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1155	30-Mar-04	M54, 37mm, HE, No Fuze	Grid N16E27	Treated in the CDC 3/31/04	South Valley	1
1156	30-Mar-04	105mm, HE, Partial, No Fuze	Grid N15E24	Treated in the CDC 4/1/04	South Valley	1
1157	30-Mar-04	MK II Hand Grenade, Unfuzed	Demo 3 Stockpile Footprint	Waiting Treatment in the CDC. In SHA.		1
1158	30-Mar-04	Mk IV Point Detonating Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/31/04		2
1159	30-Mar-04	Mk IV Point Detonating Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1160	30-Mar-04	M56 Point Detonating Fuze	Demo 3 Stockpile Footprint	Treated in the CDC 3/31/04		1
1161	30-Mar-04	M1907 Fuze	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1162	30-Mar-04	PD Fuze, Unknown	Demo 3 Stockpile Footprint	Treated in the CDC 3/31/04		1
1163	30-Mar-04	M21A1/M24 Booster	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1164	30-Mar-04	M125 Flare Candle	Demo 3 Overs	Treated in the CDC 3/31/04	Sifter 2	1
1165	30-Mar-04	M125 Flare Candle	Grid N16E27	Treated in the CDC 3/31/04		1
1166	30-Mar-04	Propellant Stick (11 grams)	Grid N16E24	Treated in the CDC 3/31/04		1
1167	30-Mar-04	M56 Point Detonating Fuze	Grid N17E28	Treated in the CDC 3/31/04		2
1168	30-Mar-04	M127 Flare Candle Pellet	Grid N17E29	Treated in the CDC 3/31/04		1
1169	31-Mar-04	Mk IV Point Detonating Fuze	Demo 3 soils	Treated in the CDC 4/1/04	Sifter 2	1
1170	31-Mar-04	M55 PTT Fuze	Demo 3 soils	Treated in the CDC 4/1/04	Sifter 2	2
1171	31-Mar-04	M1907 Fuze	Demo 3 soils	Treated in the CDC 4/1/04	Sifter 2	2
1172	31-Mar-04	M21A1/M24 Booster	Demo 3 soils	Treated in the CDC 4/1/04	Sifter 2	1
1173	31-Mar-04	Propellant Stick (11 grams)	Demo 3 soils	Treated in the CDC 4/1/04	Sifter 2	2
1174	31-Mar-04	Propellant Stick (11 grams)	Sifter 1 Overs	Treated in the CDC 4/1/04	North Valley	1

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Summary of live ordnance and explosive finds beginning 3/21/2002 through 4/2/2004 7:21

	DISCOVERY DATE	ORDNANCE TYPE	GRID LOCATION	DESTRUCTION METHOD & DATE	REMARKS	QTY
			Total ordnance to date: >>>>			2571

Notes:

- a. Items listed as "Discovered in OE Like Conex" were inadvertently moved to the conex and caught in the screening process. The grid designator for these ordnance items is the grid the conex occupies. An 800 extension was given to the grid to quell problems with the database.

- b. Grid number designators given a 900 extension indicate their being excavated prior to the geophysical mapping and reacquisition of the site. Since both "OE" and "OE Like" items are tracked and only "OE" items appear on this document, 900 extensions may look out of order.

- c. Grid number designators given a 2000 extension indicate phase two of the digging process. A 7000 extension indicates the anomaly was discovered during the "Quality Control" (QC) process of the project.

- d. This document does not include historical finds or OE items placed into storage prior to DTSC's approval to initiate fieldwork

e. Explanation of abbreviations used in this document:

AP= Armor Piercing
 BD= Base Detonating
 Cal= Caliber
 ca= each
 BIP= Blow in Place
 OE= Ordnance/Explosive
 PTT= Powder Train Time
 TP= Target Practice
 DTSC= Department of Toxic Substance Control (Cal EPA)
 Low Order= A detonation resulting in residual explosive left behind

APC= Armor Piercing Capped
 CDC= Confined Detonation Chamber
 HC= High Concentrate
 mm= Millimeter
 PD= Point Detonating
 SHA= Safe Holding Area
 w/o= without
 HESD= High Explosive Self Destruct
 WP= White Phosphorus
 LE= Low Explosives (Black Powder)