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TECHNICAL MEMORANDUM EVALUATION OF POST DETONATION SAMPLING RESULTS AT MCB CAMP LEJEUNE NC

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Evaluation of Post-Detonation Sampling Results at Marine Corps Installations East-Marine Corps Base Camp Lejeune

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This Technical Memorandum presents an evaluation of analytical data from soil samples collected after controlled detonations of munitions and explosives of concern (MEC), material potentially presenting an explosive hazard (MPPEH), and discarded military munitions (DMM) at Military Munitions Response Program (MMRP) sites at Marine Corps Installations East–Marine Corps Base Camp Lejeune (MCIEAST-MCB CAMLEJ). The purposes of this evaluation are to determine the overall impacts of controlled detonations to the environment, and to provide recommendations for future post-detonation sampling.

1 Introduction and Background

This section presents background information regarding the nature, quantities, and disposition of military munitions found during investigations at MCIEAST-MCB CAMLEJ, and the collection and analysis of soil samples after controlled detonations were conducted.

1.1 Purposes and Types of Controlled Detonations

MCIEAST-MCB CAMLEJ conducts munitions response (MR) investigations at MMRP sites and for MR clearance in support of military construction (MILCON) projects. There are currently 29 MMRP sites at MCIEAST-MCB CAMLEJ; 21 have been closed with no further action, and eight are being investigated following the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process (**Figure 1**). Additionally, an MR investigation was conducted at off-Base surface danger zones (SDZs) located adjacent to the southeastern Base boundary. Between March 2009 and November 2013, 569 MEC items, 204 MPPEH items, and two DMM items found during MR investigations and clearance projects have been demolished through controlled detonations or removed by the MCIEAST-MCB CAMLEJ Explosive Ordnance Disposal (EOD) Team (**Table 1**).

TABLE 1
Summary of MEC, MPPEH, and DMM Treated through Controlled Detonation or Removed by the MCIEAST-MCB CAMLEJ EOD Team

MMRP Site	MEC	MPPEH	DMM	Total
Off-Base SDZs	7	0	0	7
UXO-02	1	0	0	1
UXO-03	1	0	0	1
UXO-04	1	0	0	1
UXO-06	15	25	0	40
UXO-08	0	0	1	1
UXO-17	0	0	1	1
UXO-19	489	0	0	489
UXO-21	2	1	0	3
UXO-22	7	0	0	7
UXO-24	12	1	0	13
UXO-26	26	8	0	34
UXO-29	8	169	0	177

For the purposes of this evaluation, controlled detonations were divided into the following three detonation location types:

- Single Item/Single Detonation – A single item was blown-in-place (BIP) or, if determined to be safe to move, destroyed at a nearby location because of safety concerns or potential unnecessary damage to resources at the original location.
- Multiple Items/Single Detonation – Several MEC, MPPEH, or DMM items were consolidated at one location and demolished during a single controlled detonation.
- Multiple Items/Multiple Detonations – MEC or MPPEH items were transported to a consolidation point for storage and later destroyed through multiple controlled detonations

Controlled detonations and post-detonation sampling were conducted at twelve MMRP sites between October 2009 and November 2013 (**Table 2**). Six items, including the single MEC item found at Site UXO-04, were removed by the MCIEAST-MCB CAMLEJ EOD team from sites where munitions were found prior to developing an Explosives Safety Submission (ESS) for the site.

1.2 Sample Collection and Evaluation

Post-detonation samples were collected from controlled detonation locations using sampling approaches designed to be most representative of site conditions.

1.2.1 Sample Collection at Single Item/Single Detonation and Multiple Items/Single Detonation Locations

At locations where items were destroyed during a single detonation, soil may have been ejected from the ground beneath the explosion site and deposited within a maximum radius of 50 feet (15 meters) of the detonation site (Pennington et al., 2008). At each MCIEAST-MCB CAMLEJ detonation location, one composite surface soil sample was typically collected from the inside of the detonation crater using the Technical Report (TR)-02-1 method, described below, and one composite surface soil sample was collected from the area within a 50-foot (15-meter) radius outside of the crater using the incremental sampling method (**Figure 2**). However, at one detonation location, the sample increments collected inside the crater were composited with those collected within the 50-foot (15-meter) radius (**Table 3**). Each composite sample was homogenized in the field by placing the sample aliquots in a clean stainless steel bowl and mixing with a clean stainless steel spoon, or by placing the sample aliquots in a disposable plastic bag and manipulating the bag and contents by hand. The samples were then placed in appropriate sample containers.

The TR-02-1 approach is described in the United States Army Corps of Engineers (USACE) Engineer Research and Development Center (ERDC)/Cold Regions Research and Engineering Laboratory (CRREL) TR-02-1, *Guide for Characterization of Sites Contaminated with Energetic Materials* (Thiboutot et al., 2002). Soil samples were collected by compositing a minimum of 30 sample increments from random locations within the controlled detonation crater. The 30 sample increments were approximately equal in the amount of collected soil and the sample depth interval was from 0 to 2 inches (0 to 5 centimeters) below ground surface (bgs).

The sampling area for the composite sample collected outside of the detonation crater was typically roughly circular and centered on the crater, with a radius of up to 50 feet (15 meters) to encompass the visible ejecta pattern. A minimum of 30 increments of surface soil were collected from random locations outside of the crater, with a sample depth interval of 0 to 2 inches (0 to 5 centimeters) bgs.

1.2.2 Sample Collection at Controlled Detonation Areas

Multiple controlled detonations were conducted at CDAs, sometimes over many days, weeks, or months, and surface soil samples were collected after all demolition activities at the site were completed. Surface soil samples were collected from a decision unit (DU) surrounding the detonation trench using the incremental sampling method, as described in Appendix C of the Munitions Response Program Master Project Plan (CH2M HILL, 2008). Briefly, multi-increment surface soil samples were collected within the DU using a systematic sampling pattern

with a random starting point (**Figure 3**). The number of increments was typically between 30 and 50 depending on the size of the DU. Samples were collected by walking from one corner of the grid systematically back and forth across the entire grid area, collecting an increment of soil every so many paces, depending on the grid size and number of increments collected. The sample increments were approximately equal in the amount of soil, and were collected from depths of 0 to 2 inches (0 to 5 centimeters) bgs. The sample increments were homogenized as previously described, placed in appropriate sample containers, and stored in a cooler until shipped to the laboratory.

Subsurface samples were collected at two CDAs (UXO-19 and UXO-06) to evaluate the impact of multiple detonations on subsurface conditions. At the Site UXO-19 CDA, one subsurface soil sample and one field duplicate sample were collected from a depth of 2 to 4 feet (0.6 to 1.2 meters) bgs at the center of the DU encompassing the demolition trench. At the Site UXO-06 CDA, one subsurface soil sample was collected from a depth of 4 to 5 feet (1.2 to 1.5 meters) from each of the four DUs.

1.2.3 Laboratory Analyses

All soil samples were shipped to the laboratory in coolers packed with ice. The samples are typically analyzed for explosives residues by United States Environmental Protection Agency (USEPA) SW846 Method 8330, perchlorate by USEPA SW846 Method 6850, and for total metals, including mercury, USEPA SW846 Methods 6010 and 7471 based on the project-specific work plan. Quality assurance/quality control samples were collected if data validation was required by the project-specific work plan.

1.2.4 Data Evaluation

The analytical results from post-detonation samples were typically evaluated during the original investigation using the process shown on **Figure 4**. In cases where the initial screening criteria were exceeded, human health and ecological risk screenings were performed to determine whether or not excavation of soil affected by the controlled detonation was required.

Evaluation of soil analytical data using the process shown on **Figure 4** resulted in a determination that soil excavation was required at four single item/single detonation (mortar projectiles) BIP locations at Site UXO-19 due to a potential unacceptable human health risk. At each of these four locations, the potential unacceptable human health risk was driven by concentrations of explosives residues in samples collected from inside the detonation crater.

2 Screening Methodology

Because the background screening values for metals and regulatory screening criteria for all constituents were updated over time, the screening values applied to post-detonation samples during the original investigations may have varied between sites and between investigations at a given site. For the purposes of this evaluation, all metals analytical data from the post-detonation samples collected within the installation boundary were compared to MCIEAST-MCB CAMLEJ background threshold values (BTVs) for surface soil in undeveloped areas (CH2M HILL, 2011a). Metals concentrations in the samples collected within the Off-Base SDZs were compared to twice the mean concentration of site-specific background surface soil samples collected during the Preliminary Assessment/Site Inspection (PA/SI) (CH2M HILL, 2011b). Metals were considered to exceed regulatory screening criteria only if they also exceed background.

The analytical data from all samples were then compared to North Carolina Department of Environment and Natural Resources (NCDENR) Federal Remediation Branch Target Soil Screening Levels (NC SSLs) (NCDENR, 2012), and the Adjusted USEPA Regional Screening Levels (RSLs) (USEPA, 2014). The RSLs for non-carcinogenic compounds were adjusted by dividing by 10 to conservatively account for exposure to multiple analytes. The analytical data, background comparison values, NCSSLs, RSLs, and the results of comparisons of the data to these criteria are provided in **Attachment 1**.

3 Data Analysis

A statistical summary of the analytical results for all post-detonation samples, excluding field duplicates, is presented in **Table 4**. All of the explosives residues except pentaerythritol tetranitrate (PETN) were detected in post-detonation samples. Five explosives residues (2,4,6-trinitrotoluene, 2,4-dinitrotoluene, 2-nitrotoluene, nitroglycerin, and hexahydro-1,3,5-trinitro-1,3,5-triazine [RDX]) exceeded the regulatory screening criteria. All of the metals were detected in two or more post-detonation samples. Nine metals (aluminum, antimony, arsenic, chromium, cobalt, iron, lead, manganese, and thallium) exceeded the BTV and at least one regulatory screening criterion. Explosives residues and perchlorate results are presented first in the following sections, followed by metals results.

3.1 Explosives Residues and Perchlorate

The analytical results for explosives residues and perchlorate are presented by analyte, followed by an evaluation by location.

3.1.1 Discussion of Explosives Residues and Perchlorate Results by Analyte

Statistical summaries of analytical results for samples collected at the various types of detonation locations and sampled areas are provided in the following tables:

- **Table 5** - surface soil samples collected from inside of the detonation crater at single item/single detonations locations
- **Table 6** - surface soil samples collected from the area outside of the crater at single item/single detonations locations
- **Table 7** - surface soil samples composited from increments collected from both inside and outside of the crater at single item/single detonation locations
- **Table 8** - surface soil samples collected from inside of the crater at multiple items/single detonations locations
- **Table 9** - surface soil samples collected from the area outside of the crater at multiple items/single detonations locations
- **Table 10** - surface soil samples collected at multiple item/multiple detonation locations
- **Table 11** - subsurface soil samples collected at multiple item/multiple detonation locations.

The analytical results for the five explosives residues detected in soil at concentrations that exceeded at least one of the regulatory screening levels, and perchlorate detections (which did not exceed any comparison criteria), are summarized as follows:

- 2,4,6-Trinitrotoluene: This analyte was detected in 19 out of 290 samples with 10 of the results exceeding the Adjusted Residential RSL and four results exceeding the Adjusted Industrial RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: 2,4,6-Trinitrotoluene was detected in 14 out of 133 samples collected from inside the detonation crater, with 10 of the results exceeding the Adjusted Residential RSL and four results exceeding the Adjusted Industrial RSL (refer to **Table 5**), accounting for all of the exceedances of regulatory criteria for this analyte. This analyte was detected in four out of 118 samples collected outside of the crater (refer to **Table 6**). The remaining detection of this analyte occurred in the soil sample composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: 2,4,6-Trinitrotoluene was not detected in the six samples collected from inside the detonation crater or the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).

  - *Multiple Items/Multiple Detonations*: 2,4,6-Trinitrotoluene was not detected in any of the 22 surface soil samples or the 5 subsurface soil samples (refer to **Table 10** and **Table 11**).

- 2,4-Dinitrotoluene: This analyte was detected in 10 out of 290 samples with 10 of the results exceeding the NC SSL and two of the results exceeding the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: 2,4-Dinitrotoluene was detected in 10 out of 133 samples collected from inside the detonation crater, with 10 of the results exceeding the NC SSL and 2 of the results exceeding the Adjusted Residential RSL (refer to **Table 5**), accounting for all of the detections and exceedances of regulatory criteria for this analyte. This analyte was not detected in any of the 118 samples collected outside of the crater or the 2 soil samples composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: 2,4-Dinitrotoluene was not detected in any of the six samples collected from inside the detonation crater or the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: 2,4-Dinitrotoluene was not detected in any of the 22 surface soil samples or the 5 subsurface soil samples (refer to **Table 10** and **Table 11**).

- 2-Nitrotoluene: This analyte was detected in 29 out of 290 samples, with one of the results exceeding the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: 2-Nitrotoluene was detected in 14 out of 133 samples collected from inside the detonation crater, with one of the results exceeding the Adjusted Residential RSL (refer to **Table 5**). 2-Nitrotoluene was detected in 14 out of 118 samples collected outside of the crater (refer to **Table 6**). The remaining detections of this analyte occurred in one out of two soil samples composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: 2-Nitrotoluene was not detected in any of the six samples collected from inside the detonation crater or the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: 2-Nitrotoluene was not detected in any of the 22 surface soil samples or the 5 subsurface soil samples (refer to **Table 10** and **Table 11**).

- Nitroglycerin: This analyte was detected in 17 out of 290 samples, with 6 of the results exceeding the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Nitroglycerin was detected in 11 out of 133 samples collected from inside the detonation crater, with three of the results exceeding the Adjusted Residential RSL (refer to **Table 5**). This analyte was detected in 6 out of 118 samples collected outside of the crater, with 3 of the results exceeding the Adjusted Residential RSL (refer to **Table 6**). Nitroglycerin was not detected in the two soil samples composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: Nitroglycerin was not detected in any of the six samples collected from inside the detonation crater or the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Nitroglycerin was not detected in any of the 22 surface soil samples or the 5 subsurface soil samples (refer to **Table 10** and **Table 11**).

- RDX: This analyte was detected in 31 out of 290 samples, with one of the results exceeding the Adjusted Residential RSL and the Adjusted Industrial RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: RDX was detected in nine out of 133 samples collected from inside the detonation crater, with one result exceeding the Adjusted Residential RSL and the Adjusted Industrial RSL (refer to **Table 5**), accounting for all of the exceedances of this compound. This analyte was detected in 2 out of 118 samples collected outside of the crater (refer to **Table 6**). RDX was detected in one out of two soil samples composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: RDX was not detected in any of the six samples collected from inside the detonation crater or the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: RDX was detected in 16 of the 22 surface soil samples and in 3 of the 5 subsurface soil samples, with all concentrations less than the screening criteria (refer to **Table 10** and **Table 11**).
- Perchlorate: This analyte was detected in 53 out of 290 inner crater samples, with concentrations less than the Adjusted Residential Soil RSL and the Adjusted Industrial Soil RSL in all cases (refer to **Table 4**). These detections were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Perchlorate was detected in 28 out of 133 samples collected from inside the detonation crater (refer to **Table 5**), and in 22 out of 118 samples collected outside of the crater (refer to **Table 6**). This analyte was detected in one out of two soil samples composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: Perchlorate was not detected in any of the six samples collected from inside the detonation crater or the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Perchlorate was detected in one of the 22 surface soil samples and in one of the 5 subsurface soil samples (refer to **Table 10** and **Table 11**).

3.1.2 Discussion of Explosives Residues and Perchlorate Results by Detonation Location

As previously presented, explosives residues exceedances of regulatory screening criteria only occurred at single item/single detonation locations. Perchlorate concentrations did not exceed regulatory screening criteria in any samples; however, perchlorate detections will be discussed in this section because of its common association with munitions. In samples collected from inside of the detonation craters, explosives residues exceedances of Adjusted Residential RSLs occurred in 10.5 percent (14/133) of the samples (refer to **Table 5**). In samples collected from outside of the detonation craters, explosives residues exceedances of Adjusted Residential RSLs occurred in approximately 2.5 percent (3/118) of the samples (refer to **Table 6**).

Table 12 lists the 15 detonation locations where these exceedances occurred. This table also includes a description of the MEC item that was destroyed, detections of explosives residues and perchlorate, and identifies the explosives residues that exceeded the Adjusted Residential RSL, the Adjusted Industrial RSL, and the NC SSL at each detonation location. Samples were collected from inside of the crater at all 15 locations, and samples were collected from outside of the crater at 7 detonation locations. The analytical results for explosives residues and perchlorate analyzed at these 15 locations are presented in Attachment 2.

The five compounds that exceeded the regulatory screening criteria were:

- 2,4,6-Trinitrotoluene was detected at 10 locations, exceeding the Adjusted Residential RSL at 10 locations and the Adjusted Industrial RSL at 4 locations.

- 2,4-Dinitrotoluene was detected at 10 locations, exceeding the NCSSL at 10 locations and the Adjusted Residential RSL at 2 locations.
- 2-Nitrotoluene was detected at one location and exceeded the Adjusted Residential RSL.
- Nitroglycerin was detected at 11 locations and exceeded the Adjusted Residential RSL at 4 locations.
- RDX was detected at five locations and exceeded both the Adjusted Residential and Industrial RSLs at one location.
- Perchlorate was detected at four locations but did not exceed any of the regulatory screening criteria.

At the seven locations with paired samples, comparison of the explosives residues and perchlorate detections and exceedances between the results for samples collected from inside of the crater to those collected outside of the crater provides the following observations:

- In the samples collected inside of the crater, 2,4,6-trinitrotoluene and 2,4-dinitrotoluene were the explosives residues that most often exceeded the regulatory screening criteria. However, these constituents did not exceed regulatory screening criteria in any of the samples collected outside of the craters.
- Nitroglycerin exceedances occurred with similar frequency between samples collected inside the crater and those collected outside of the crater. One location, C5I5H3-00427, had a nitroglycerin exceedance in the sample collected outside of the crater and no explosives residues were detected in the sample collected inside the crater.
- At the single detonation location where 2-nitrotoluene exceeded the regulatory screening criteria, it was the only explosives residue detected in the inside and outside of crater samples, and only exceeded the Adjusted Residential RSL in the sample collected inside of the crater.
- With respect to the explosives residues and perchlorate that did not exceed criteria, 1,3,5-trinitrobenzene and 2,6-dinitrotoluene were detected in two inner crater samples but were not detected in any sample collected outside of the craters. 2-Amino-4,6-dinitrotoluene, 4-amino-2,6-dinitrotoluene, and perchlorate were each detected in two inner crater samples but in only one sample collected outside of the crater.

In summary, explosives residues, particularly in samples collected from inside of detonation craters, were reliable indicators of environmental impacts resulting from controlled detonations.

3.2 Metals

The analytical results for metals will be presented by analyte, followed by an evaluation by location.

3.2.1 Discussion of Metal Results by Analyte

The analytical results for the nine metals detected in soil at concentrations that exceeded at least one of the regulatory screening levels are summarized as follows:

- Aluminum: This analyte was detected in all 263 samples collected, with 4 of the results exceeding the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Aluminum was detected in all of the 126 samples collected from inside the detonation crater, with 2 of the results exceeding the Adjusted Residential RSL (refer to **Table 5**). This analyte was detected in all of the 118 samples collected outside of the crater, with 2 of the results exceeding the Adjusted Residential RSL (refer to **Table 6**), accounting for the remaining exceedances. Aluminum was detected in both of the two soil samples composited from increments collected from both inside and outside of the crater at concentrations less than the regulatory screening criteria (refer to **Table 7**)

  - *Multiple Items/Single Detonation*: Aluminum was detected in all six of the samples collected from inside the detonation crater and in all four of the samples collected outside of the detonation crater at concentrations less than the regulatory screening criteria (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Aluminum was detected in all six of the surface soil samples and the subsurface soil sample, with all concentrations less than the regulatory screening criteria (refer to **Table 10** and **Table 11**).

- Antimony: This analyte was detected in 8 out of 270 samples, with one of the results exceeding the NC SSL and the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Antimony was detected in 3 out of 133 samples collected from inside the detonation crater, with all concentrations less than the regulatory screening criteria (refer to **Table 5**). This analyte was detected in 4 out of 118 samples collected outside of the crater, with all concentrations less than the regulatory screening criteria (refer to **Table 6**). Antimony was not detected in the two soil samples composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: Antimony was detected in one out of the six samples collected from inside the detonation crater at a concentration exceeding the NC SSL and the Adjusted Residential RSL (refer to **Table 8** and **Table 9**). This analyte was not detected in any of the four samples collected outside of the detonation crater.
  - *Multiple Items/Multiple Detonations*: Antimony was not detected in any of the six surface soil samples or the subsurface soil sample (refer to **Table 10** and **Table 11**).
- Arsenic: This analyte was detected in 246 out of 270 samples, with 119 of the results exceeding the Adjusted Residential RSL. All detected concentrations were less than the Adjusted Industrial RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Arsenic was detected in 125 out of 133 samples collected from inside the detonation crater, with 62 of the results exceeding the Adjusted Residential RSL (refer to **Table 5**). This analyte was detected in 109 out of 118 samples collected outside of the crater, with 52 of the results exceeding the Adjusted Residential RSL (refer to **Table 6**). Arsenic was detected in one of the two soil samples composited from increments collected from both inside and outside of the crater at a concentration less than the regulatory screening criteria (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: Arsenic was detected in four out of the six samples collected from inside the detonation crater, with one sample exceeding the Adjusted Residential RSL, but was not detected in any of the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Arsenic was detected in all six of the surface soil samples and four of the concentrations exceeded the Adjusted Residential RSL (refer to **Table 10**). Arsenic was detected in the subsurface soil sample at a concentration less than the screening criteria (refer to **Table 11**).
- Chromium: This analyte was detected in all of the 263 samples collected, with three of the results exceeding the NC SSL, the Adjusted Residential RSL, and the Adjusted Industrial RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Chromium was detected in all of the 126 samples collected from inside the detonation crater, with none of the results exceeding the regulatory screening levels (refer to **Table 5**). This analyte was detected in all of the 118 samples collected outside of the crater, with none of the results exceeding the regulatory screening levels (refer to **Table 6**). Chromium was detected in the two soil samples composited from increments collected from both inside and outside of the crater at concentrations less than the regulatory screening criteria (refer to **Table 7**).

  - *Multiple Items/Single Detonation*: Chromium was detected in all six of the samples collected from inside the detonation crater and all four of the samples collected outside of the detonation crater at concentrations less than the regulatory screening criteria (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Chromium was detected in all six of the surface soil samples, with three of the concentrations exceeding the NC SSL, the Adjusted Residential Soil RSL, and the Adjusted Industrial Soil RSL, accounting for all exceedances (refer to **Table 10** and **Table 11**). Chromium was detected in the single subsurface soil sample at a concentration less than the regulatory screening criteria.

- Cobalt: This analyte was detected in 230 out of 263 samples, with 25 of the results exceeding the NC SSL but less than the Adjusted Residential RSL and the Adjusted Industrial RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Cobalt was detected in 110 out of 126 samples collected from inside the detonation crater, with 11 of the results exceeding the NC SSL (refer to **Table 5**). This analyte was detected in 106 out of 118 samples collected outside of the crater, with 12 of the results exceeding the NC SSL (refer to **Table 6**). This analyte was detected in one of the two soil samples composited from increments collected from both inside and outside of the crater at a concentration exceeding the BTV (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: Cobalt was detected in five out of the six samples collected from inside the detonation crater and in one of the four samples collected outside of the detonation crater, with all concentrations less than the regulatory screening criteria (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Cobalt was detected in all six of the surface soil samples, with two of the concentrations exceeding the NC SSL (refer to **Table 10** and **Table 11**). Cobalt was detected in the single subsurface soil sample at a concentration less than the regulatory screening criteria.

- Iron: This analyte was detected in all of the 263 samples collected, with three of the results exceeding the NC SSL and the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Iron was detected in all of the 126 samples collected from inside the detonation crater, with two of the results exceeding the NC SSL and the Adjusted Residential RSL (refer to **Table 5**). This analyte was detected in all of the 118 samples collected outside of the crater, with one of the results exceeding the NC SSL and the Adjusted Residential RSL (refer to **Table 6**), accounting for the remaining exceedance. Iron was detected in both of the two soil samples composited from increments collected from both inside and outside of the crater at concentrations less than the regulatory screening criteria (refer to **Table 7**)
  - *Multiple Items/Single Detonation*: Iron was detected in all six of the samples collected from inside the detonation crater and in all four of the samples collected outside of the detonation crater at concentrations less than the regulatory screening criteria (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Iron was detected in all six of the surface soil samples and the subsurface soil sample, with all concentrations less than the regulatory screening criteria (refer to **Table 10** and **Table 11**).

- Lead: This analyte was detected in 259 out of 270 samples, with one of the results exceeding the NC SSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Lead was detected in 127 out of 133 samples collected from inside the detonation crater, with none of the results exceeding the regulatory screening criteria (refer to **Table 5**). This analyte was detected in 113 out of 118 samples collected outside of the crater, with none of the results exceeding the regulatory screening criteria (refer to **Table 6**). Lead was detected in the two soil samples composited from increments collected from both inside and outside of the crater at concentrations less than the regulatory screening criteria (refer to **Table 7**).

  - *Multiple Items/Single Detonation*: Lead was detected in the six samples collected from inside the detonation crater, with one result exceeding the NC SSL, accounting for the single exceedance. This analyte was detected in the four samples collected outside of the detonation crater at concentrations less than the regulatory screening criteria (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Lead was detected in all six of the surface soil samples and the subsurface soil sample, with all concentrations less than the regulatory screening criteria (refer to **Table 10** and **Table 11**).

- Manganese: This analyte was detected in all of the 263 samples collected, with 11 of the results exceeding the NC SSL and one of the results exceeding the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - Single Item/Single Detonation: Manganese was detected in all of the 126 samples collected from inside the detonation crater, with 2 of the results exceeding the NC SSL (refer to **Table 5**). This analyte was detected in all of the 118 samples collected outside of the crater, with one of the results exceeding the NC SSL and 9 of the results exceeding the Adjusted Residential RSL (refer to **Table 6**). Manganese was detected in both of the two soil samples composited from increments collected from both inside and outside of the crater at concentrations less than the regulatory screening criteria (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: Manganese was detected in all six of the samples collected from inside the detonation crater and in all four of the samples collected outside of the detonation crater at concentrations less than the regulatory screening criteria (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Manganese was detected in all six of the surface soil samples and the subsurface soil sample, with all concentrations less than the regulatory screening criteria (refer to **Table 10** and **Table 11**).

- Thallium: This analyte was detected in 3 out of 263 samples, with all 3 of the results exceeding the Adjusted Residential RSL (refer to **Table 4**). These results were distributed among the following detonation location types:
  - *Single Item/Single Detonation*: Thallium was not detected in the 126 samples collected from inside the detonation crater (refer to **Table 5**) or in the 118 samples collected outside of the crater (refer to **Table 6**). Thallium was not detected in the two soil samples composited from increments collected from both inside and outside of the crater (refer to **Table 7**).
  - *Multiple Items/Single Detonation*: Thallium was not detected in the six samples collected from inside the detonation crater or in the four samples collected outside of the detonation crater (refer to **Table 8** and **Table 9**).
  - *Multiple Items/Multiple Detonations*: Thallium was detected in three of the six surface soil samples, with all three concentrations exceeding the Adjusted Residential RSL, accounting for all of the exceedances (refer to **Table 10**). This analyte was not detected in the subsurface soil sample (refer to **Table 11**).

3.2.2 Discussion of Metal Results by Detonation Location

Naturally occurring metals may be present at detonation locations. The presence of these naturally occurring metals may interfere with the identification of environmental impacts resulting from controlled detonations of MEC/MPPEH items. Therefore, metal concentrations were also compared to background values and only considered to have exceeded screening criteria if the concentration is also greater than background. **Table 13** summarizes, as a percentage of all post-detonation samples analyzed, the frequency of detection (FOD) and frequency of exceedance (FOE) of the nine metals with concentrations exceeding background and at least one of the regulatory screening criteria.

TABLE 13
Summary of Metals Detection and Exceedance in Samples Collected from All Detonation Locations

Analyte	Number of Results	Frequency of Detection	Frequency of Background Exceedance	Frequency of NC SSL Exceedance	Frequency of Residential RSL Exceedance	Frequency of Industrial RSL Exceedance
Aluminum	263	100%	2%	NC	2%	0%
Antimony	270	3%	<1%	<1%	<1%	0%
Arsenic	270	91%	44%	0%	44%	0%
Chromium	263	100%	1%	1%	1%	1%
Cobalt	263	88%	56%	10%	0%	0%
Iron	263	100%	1%	1%	1%	0%
Lead	270	96%	3%	<1%	0%	0%
Manganese	263	100%	13%	4%	<1%	0%
Thallium	263	1%	NC	0%	1%	0%

Notes:

µg/kg - micrograms per kilogram

NC – No screening criterion exists for the analyte

NC SSL – North Carolina Soil Screening Level, February 2012

RSL – United States Environmental Protection Agency Regional Screening Level, May 2014, adjusted for exposure to multiple constituents.

Antimony and thallium (three percent FOD and one percent FOD, respectively) were detected at distinctly lower percentages than the other metals; therefore, these two metals were not reliable indicators of environmental impacts from controlled detonations.

Aluminum, chromium, iron, and lead were detected in more than 95 percent of samples but exceeded background and regulatory screening criteria in less than three percent of the samples, indicating that higher concentrations may actually be at the upper end of the background population distribution, rather than exceeding criteria because of environmental impacts from controlled detonations.

Arsenic, cobalt, and manganese also exhibited high FODs (91 percent, 88 percent, and 100 percent, respectively), and commonly exceeded background (44 percent, 56 percent, and 13 percent, respectively). Arsenic concentrations did not exceed the NC SSL but were greater than the Adjusted Residential RSL in 44 percent of samples. Cobalt concentrations were greater than the NC SSL in 10 percent of the samples but did not exceed the Adjusted RSLs. Manganese concentrations were greater than the NC SSL in four percent of the samples and exceeded the Adjusted Residential RSL in less than one percent of samples.

As a result of the arsenic, cobalt, and manganese FOEs, additional evaluation was necessary to determine if these metals were reliable indicators of environmental impacts from controlled detonations. Logically, if metals were released during a controlled detonation, the pattern of detections and concentrations of metals should have been similar to those shown by explosives residues.

Arsenic exceeded the Adjusted Residential RSL much more frequently than any of the other metals. As previously presented, 47 percent (62 out of 133) of the arsenic concentrations in samples collected from inside the crater at single item/single detonation locations exceeded the Adjusted Residential RSL (refer to **Table 5**). In samples collected from outside of the crater, 44 percent (52 out of 118) of the arsenic concentrations exceeded the Adjusted Residential RSL (refer to **Table 6**). This comparison of the inside of crater rate to the outside of crater exceedance rate indicates that arsenic is not likely to have been released from controlled detonations of MEC/MPPEH.

The analytical results for the 9 exceeding metals at the 15 locations with explosives residues exceedances are listed in **Attachment 3**. **Table 14** presents the comparison of exceeding metals in samples collected inside the

crater to those collected outside of the crater. The observations developed through this comparison are summarized as follows:

- Metals exceeded criteria more frequently in the samples collected outside of the crater than in the samples collected from inside the crater.
- At the detonation location of Anomaly ID C5I5D2-00055, cobalt and manganese exceeded the NC SSL; arsenic, cobalt, iron and manganese exceeded the Adjusted Residential RSL. In comparison, only manganese was detected above the BTV in the sample collected from inside of the crater, but the concentration did not exceed the regulatory screening criteria.

In summary, the metals data collected at detonation locations do not exhibit patterns indicative of environmental impacts related to the detonations.

4 Conclusions

The following conclusions are made based on the evaluation of post-detonation soil samples collected at MCIEAST-MCB CAMLEJ:

- Controlled detonations of MEC/MPPEH may result in environmental impacts from explosives residues primarily from inside the crater at single item/single detonation BIP locations. This conclusion is based on:
  - Exceedances of regulatory screening criteria for explosives residues occur only at single item/single detonation locations; these exceedances are primarily from inside the detonation crater.
  - Potential unacceptable human health risk was identified at four single item/single detonation (mortar projectiles) BIP locations at Site UXO-19, resulting in excavation of soil.
- Perchlorate was not detected in any soil samples at concentrations exceeding regulatory screening criteria, indicating that perchlorate is not a concern in controlled detonations of MEC/MPPEH.
- There was a low frequency of exceedances for metals in soil, except for arsenic; however, arsenic exceedances occurred at each detonation location type and at all sites. The arsenic frequencies of exceedance were similar within the soil samples collected from inside and outside the craters. This evidence suggests that the concentrations of arsenic detected in soil represent ambient conditions and do not result from detonations.

5 Recommendations

Based on the previously presented conclusions, the following actions are recommended:

- Continue post-detonation soil sampling from inside the detonation craters for analysis of explosives residues.
- Discontinue collection and/or analysis of post-detonation soil samples from outside of detonation craters unless there are explosives residues exceedances in soil samples collected from inside the craters.
- Discontinue analysis of post-detonation soil samples for perchlorate and metals.

6 References

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Tables

TABLE 2
Summary of Controlled Detonations

MMRP Site	Project	Number Items Destroyed Single Item/Single Detonation Locations	Number Items Destroyed Multiple Items/Single Detonation Locations	Number Items Destroyed Multiple Items/Multiple Detonations Locations (CDAs)	Number Items Removed by Base EOD	Total Items Destroyed by Controlled Detonation	Number Post-Detonation Samples Collected
Off-Base SDZs	PA/SI	1	0	0	0	1	1
Off-Base SDZs	ESI	3	3	0	0	6	6
UXO-02	ESI	1	0	0	0	1	3
UXO-03	PA/SI	1	0	0	0	1	1
UXO-04	ESI	0	0	0	1	0	0
UXO-06	BPEA Phase 1	0	0	1	0	1	0
UXO-06	BPEA Phase 1A SubArea 1	2	0	0	0	2	3
UXO-06	BPEA Phase 1A SubArea 2	1	0	16	0	17	27
UXO-06	Dirt Mounds	0	0	1	0	1	0
UXO-06	BPEA Phase 2	0	0	1	0	1	0
UXO-06	RI	1	17	0	0	18	3
UXO-08	PA/SI	1	0	0	0	1	3
UXO-17	PA/SI	1	0	0	0	1	3
UXO-19	PA/SI	35	0	9	0	44	8
UXO-19	RI/FS	127	0	316	2	443	237
UXO-21	PA/SI Phase 1	0	0	0	2	0	0
UXO-21	ESI	1	0	0	0	1	3
UXO-21	MILCON	1	0	0	0	1	3
UXO-22	PA/SI Report	0	3	0	0	3	0
UXO-22	Site 6 RI	0	4	0	0	4	3
UXO-24	PA/SI	0	13	0	0	13	1
UXO-26	ESI	0	24	0	1	24	4
UXO-26	MILCON	0	9	0	0	9	2
UXO-29	MILCON	8	169	0	0	177	21
Total		**184**	**242**	**344**	**6**	**770**	**332**

Notes:
BPEA = Borrow Pit Excavation Area
ESI = Expanded Site Inspection/Investigation
PA/SI = Preliminary Assessment/Site Inspection
RI/FS = Remedial Investigation/Feasibility Study

TABLE 3
Summary of Post-Detonation Samples

MMRP Site	Project	Number of Samples Collected Inside of Crater	Number of Samples Collected Outside of Crater	Number of Samples Collected Combining Areas Inside and Outside of Crater	Number of Samples Collected from CDA Decision Units	Number of Subsurface Soil Samples	Total
Off-Base SDZs	PA/SI	1	0	0	0	0	1
Off-Base SDZs	ESI	4	2	0	0	0	6
UXO-02	ESI	2	1	0	0	0	3
UXO-03	PA/SI	1	0	0	0	0	1
UXO-06	BPEA Phase 1	0	0	0	0	0	0
UXO-06	BPEA Phase 1A SubArea 1	3	0	0	0	0	3
UXO-06	BPEA Phase 1A SubArea 2	2	1	2	17	5	27
UXO-06	Dirt Mounds	0	0	0	0	0	0
UXO-06	BPEA Phase 2	0	0	0	0	0	0
UXO-06	RI	2	1	0	0	0	3
UXO-08	PA/SI	2	1	0	0	0	3
UXO-17	PA/SI	2	1	0	0	0	3
UXO-19	PA/SI	8	0	0	0	0	8
UXO-19	RI/FS	116	115	0	4	2	237
UXO-21	PA/SI	0	0	0	0	0	0
UXO-21	ESI	1	2	0	0	0	3
UXO-21	MILCON	1	2	0	0	0	3
UXO-22	Site 6 SI	1	2	0	0	0	3
UXO-24	PA/SI	1	0	0	0	0	1
UXO-26	ESI	2	2	0	0	0	4
UXO-26	MILCON	1	1	0	0	0	2
UXO-29	MILCON	10	11	0	0	0	21
Total		160	142	2	21	7	332

TABLE 4
Summary Statistics of Samples Collected from All Detonation Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	290	9	20.6	225	903	NC	NC	0	0
1,3-Dinitrobenzene	290	14	39.6	126	228	NC	NC	0	0
2,4,6-Trinitrotoluene	290	19	76	135,024	178,0000	NC	NC	10	4
2,4-Dinitrotoluene	290	10	20.2	1,105	7,040	NC	10	2	0
2,6-Dinitrotoluene	290	8	42.1	117	216	NC	NC	0	0
2-Amino-4,6-dinitrotoluene	290	16	88.7	467	2,000	NC	NC	0	0
2-Nitrotoluene	290	29	109	1,074	4,960	NC	NC	1	0
3-Nitrotoluene	290	2	27.5	86.8	146	NC	NC	0	0
4-Amino-2,6-dinitrotoluene	290	15	108	773	4,000	NC	NC	0	0
4-Nitrotoluene	290	3	54.5	636	1,450	NC	NC	0	0
HMX	290	9	25.9	3,708	32,000	NC	NC	0	0
Nitrobenzene	290	1	141	141	141	NC	NC	0	0
Nitroglycerin	290	17	123	653	2,220	NC	NC	6	0
PETN	290	0	NA	NA	NA	NC	NC	0	0
RDX	290	31	27.6	3,419	98,000	NC	NC	1	1
Tetryl	290	13	50.8	650	4,780	NC	NC	0	0
Perchlorate	290	53	0.681	68	975	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	263	263	358	6,169	14,500	4	NC	4	0
Antimony	270	8	0.284	0.91	4.26	1	1	1	0
Arsenic	270	246	0.263	1.21	2.98	119	0	119	0
Barium	263	263	1.87	21.1	225	12	0	0	0
Beryllium	263	255	0.0136	0.146	0.313	86	0	0	0
Cadmium	263	108	0.02	0.13	0.651	16	0	0	0
Calcium	261	237	24.4	4,020	115,000	32	NC	NC	NC
Chromium	263	263	0.775	5.63	20.9	3	3	3	3
Cobalt	263	230	0.055	0.57	1.22	147	25	0	0
Copper	270	264	0.391	5.31	64.1	13	0	0	0
Iron	263	263	405	3,233	21,400	3	3	3	0
Lead	270	259	1.55	10.8	371	8	1	0	0
Magnesium	261	225	20	280	4,500	2	NC	NC	NC
Manganese	263	263	1.21	24.0	408	34	11	1	0
Mercury	263	190	0.00251	0.0190	0.0533	0	0	0	0
Nickel	263	262	0.273	2.04	8.38	21	0	0	0
Potassium	261	252	26.6	178	413	5	NC	NC	NC
Selenium	263	81	0.153	0.267	0.883	0	0	0	0
Silver	263	2	0.03	0.05	0.06	0	0	0	0
Sodium	261	40	4.5	480	4,210	1	NC	NC	NC
Thallium	263	3	0.196	0.20	0.21	NC	0	3	0
Vanadium	263	262	1.16	7.62	16.6	0	0	0	0
Zinc	270	270	0.762	49.7	1,180	110	0	0	0

Notes:
µg/kg = micrograms per kilogram
BTV = Background Threshold Values for combined surface soil in undeveloped areas
HMX = Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
mg/kg = milligrams per kilogram
NA = Not Applicable
NC = No screening criterion exists for the analyte
NC SSL = North Carolina Soil Screening Level, February 2012
PETN = Pentaerythritol tetranitrate
RDX = Hexahydro-1,3,5-trinitro-1,3,5-triazine
RSL = United States Environmental Protection Agency Regional Screening Level, May 2014, adjusted for exposure to multiple constituents.
Tetryl = Trinitrophenylmethylnitramine

TABLE 5
Summary Statistics of Samples Collected from Inside the Controlled Detonation Crater at Single Item/Single Detonation Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	133	9	20.6	225	903	NC	NC	0	0
1,3-Dinitrobenzene	133	12	39.6	118	210	NC	NC	0	0
2,4,6-Trinitrotoluene	133	14	146	183,182	1,780,000	NC	NC	10	5
2,4-Dinitrotoluene	133	10	20.2	1,105	7,040	NC	10	2	0
2,6-Dinitrotoluene	133	8	42.1	117	216	NC	NC	0	0
2-Amino-4,6-dinitrotoluene	133	13	88.7	533	2,000	NC	NC	0	0
2-Nitrotoluene	133	14	145	1,163	4,960	NC	NC	1	0
3-Nitrotoluene	133	2	27.5	87	146	NC	NC	0	0
4-Amino-2,6-dinitrotoluene	133	12	108	901	4,000	NC	NC	0	0
4-Nitrotoluene	133	2	54.5	229	403	NC	NC	0	0
HMX	133	5	25.9	6,442	32,000	NC	NC	0	0
Nitrobenzene	133	0	NA	NA	NA	NC	NC	0	0
Nitroglycerin	133	11	123	473	1,770	NC	NC	3	0
PETN	133	0	NA	NA	NA	NC	NC	0	0
RDX	133	9	27.6	10,960	98,000	NC	NC	1	1
Tetryl	133	9	50.8	891	4,780	NC	NC	0	0
Perchlorate	133	28	0.681	73	975	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	126	126	358	6,383	13,700	2	NC	2	0
Antimony	133	3	0.373	0.477	0.598	0	0	0	0
Arsenic	133	125	0.382	1.17	2.31	62	0	62	0
Barium	126	126	1.9	21. 3	101	7	0	0	0
Beryllium	126	122	0.0136	0.152	0.301	43	0	0	0
Cadmium	126	45	0.0203	0.109	0.374	3	0	0	0
Calcium	125	113	49.9	3,372	115,000	11	NC	NC	NC
Chromium	126	126	0.775	5.56	10.9	0	0	0	0
Cobalt	126	110	0.0892	0.578	1.11	73	11	0	0
Copper	133	130	0.391	5.03	30.9	5	0	0	0
Iron	126	126	408	3,324	11,500	2	2	2	0
Lead	133	127	1.7	9.3	83	3	0	0	0
Magnesium	125	108	36.5	305	4,500	2	NC	NC	NC
Manganese	126	126	1.21	21.4	85.5	13	2	0	0
Mercury	126	91	0.00251	0.0192	0.0533	0	0	0	0
Nickel	126	126	0.273	1.96	3.89	8	0	0	0
Potassium	125	120	47.1	177	392	2	NC	NC	NC
Selenium	126	35	0.155	0.232	0.464	0	0	0	0
Silver	126	1	0.03	0.03	0.03	0	0	0	0
Sodium	125	15	4.5	759	4,210	0	NC	NC	NC
Thallium	126	0	NA	NA	NA	NC	0	0	0
Vanadium	126	125	1.16	7.8	15.8	0	0	0	0
Zinc	133	133	0.762	51.4	1,180	50	0	0	0

TABLE 6
Summary Statistics of Samples Collected from Outside of the Controlled Detonation Crater at Single Item/Single Detonation Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	118	0	NA	NA	NA	NC	NC	0	0
1,3-Dinitrobenzene	118	2	124	176	228	NC	NC	0	0
2,4,6-Trinitrotoluene	118	4	148	208	302	NC	NC	0	0
2,4-Dinitrotoluene	118	0	NA	NA	NA	NC	0	0	0
2,6-Dinitrotoluene	118	0	NA	NA	NA	NC	NC	0	0
2-Amino-4,6-dinitrotoluene	118	3	117	181	305	NC	NC	0	0
2-Nitrotoluene	118	14	109	1,052	2,570	NC	NC	0	0
3-Nitrotoluene	118	0	NA	NA	NA	NC	NC	0	0
4-Amino-2,6-dinitrotoluene	118	3	191	263	365	NC	NC	0	0
4-Nitrotoluene	118	1	1,450	1,450	1,450	NC	NC	0	0
HMX	118	0	NA	NA	NA	NC	NC	0	0
Nitrobenzene	118	1	141	141	141	NC	NC	0	0
Nitroglycerin	118	6	341	984	2,220	NC	NC	3	0
PETN	118	0	NA	NA	NA	NC	NC	0	0
RDX	118	2	84.8	98	112	NC	NC	0	0
Tetryl	118	4	53.2	109	153	NC	NC	0	0
Perchlorate	118	22	1.1	69	273	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	118	118	1,240	6,445	14,500	2	NC	2	0
Antimony	118	4	0.284	0.40	0.56	0	0	0	0
Arsenic	118	109	0.359	1.23	2.98	52	0	52	0
Barium	118	118	1.87	21.0	45.2	3	0	0	0
Beryllium	118	118	0.0147	0.149	0.313	43	0	1	0
Cadmium	118	48	0.0553	0.133	0.651	8	0	0	0
Calcium	117	105	56.4	4,225	100,000	15	NC	NC	NC
Chromium	118	118	0.794	5.54	16.6	0	0	0	0
Cobalt	118	106	0.0903	0.591	1.22	70	12	0	0
Copper	118	115	0.394	5.16	44.4	5	0	0	0
Iron	118	118	469	3385	21,400	1	1	1	0
Lead	118	113	2.02	9.04	63.2	2	0	0	0
Magnesium	117	100	32.6	239	825	0	NC	NC	NC
Manganese	118	118	1.29	28.9	408	20	9	1	0
Mercury	118	91	0.00387	0.0188	0.0294	0	0	0	0
Nickel	118	118	0.293	2.17	8.38	10	0	0	0
Potassium	117	116	40.2	177	346	0	NC	NC	NC
Selenium	118	39	0.153	0.250	0.883	0	0	0	0
Silver	118	1	0.06	0.06	0.06	0	0	0	0
Sodium	117	13	5.69	42.2	103	0	NC	NC	NC
Thallium	118	0	NA	NA	NA	NC	0	0	0
Vanadium	118	118	1.53	7.76	16.6	0	0	0	0
Zinc	118	118	0.766	51.7	443	56	0	0	0

TABLE 7
Summary Statistics of Samples Collected from Inside and Outside of the Crater at Single Item/Single Detonation Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	2	0	NA	NA	NA	NC	NC	0	0
1,3-Dinitrobenzene	2	0	NA	NA	NA	NC	NC	0	0
2,4,6-Trinitrotoluene	2	1	76	76	76	NC	NC	0	0
2,4-Dinitrotoluene	2	0	NA	NA	NA	NC	0	0	0
2,6-Dinitrotoluene	2	0	NA	NA	NA	NC	NC	0	0
2-Amino-4,6-dinitrotoluene	2	0	NA	NA	NA	NC	NC	0	0
2-Nitrotoluene	2	1	120	120	120	NC	NC	0	0
3-Nitrotoluene	2	0	NA	NA	NA	NC	NC	0	0
4-Amino-2,6-dinitrotoluene	2	0	NA	NA	NA	NC	NC	0	0
4-Nitrotoluene	2	0	NA	NA	NA	NC	NC	0	0
HMX	2	0	NA	NA	NA	NC	NC	0	0
Nitrobenzene	2	0	NA	NA	NA	NC	NC	0	0
Nitroglycerin	2	0	NA	NA	NA	NC	NC	0	0
PETN	2	0	NA	NA	NA	NC	NC	0	0
RDX	2	1	150	150	150	NC	NC	0	0
Tetryl	2	0	NA	NA	NA	NC	NC	0	0
Perchlorate	2	1	0.9	0.9	0.9	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	2	2	695	3,018	5,340	0	NC	0	0
Antimony	2	0	NA	NA	NA	0	0	0	0
Arsenic	2	1	0.593	0.593	0.593	0	0	0	0
Barium	2	2	10.9	118	225	1	0	0	0
Beryllium	2	1	0.082	0.082	0.082	0	0	0	0
Cadmium	2	2	0.0742	0.085	0.095	0	0	0	0
Calcium	2	2	374	982	1,590	0	NC	NC	NC
Chromium	2	2	1.11	3.65	6.18	0	0	0	0
Cobalt	2	1	0.433	0.433	0.433	1	0	0	0
Copper	2	2	1.55	1.77	1.99	0	0	0	0
Iron	2	2	405	1,188	1,970	0	0	0	0
Lead	2	2	12.5	59.75	107	1	0	0	0
Magnesium	2	2	107	152	197	0	NC	NC	NC
Manganese	2	2	6.66	7.19	7.72	0	0	0	0
Mercury	2	0	NA	NA	NA	0	0	0	0
Nickel	2	1	1.54	1.54	1.54	0	0	0	0
Potassium	2	1	273	273	273	0	NC	NC	NC
Selenium	2	0	NA	NA	NA	0	0	0	0
Silver	2	0	NA	NA	NA	0	0	0	0
Sodium	2	0	NA	NA	NA	0	NC	NC	NC
Thallium	2	0	NA	NA	NA	NC	0	0	0
Vanadium	2	2	1.48	4.42	7.35	0	0	0	0
Zinc	2	2	5.32	6.52	7.72	0	0	0	0

TABLE 8
Summary Statistics of Samples Collected from Inside the Crater at Multiple Items/Single Detonation Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	6	0	NA	NA	NA	NC	NC	0	0
1,3-Dinitrobenzene	6	0	NA	NA	NA	NC	NC	0	0
2,4,6-Trinitrotoluene	6	0	NA	NA	NA	NC	NC	0	0
2,4-Dinitrotoluene	6	0	NA	NA	NA	NC	0	0	0
2,6-Dinitrotoluene	6	0	NA	NA	NA	NC	NC	0	0
2-Amino-4,6-dinitrotoluene	6	0	NA	NA	NA	NC	NC	0	0
2-Nitrotoluene	6	0	NA	NA	NA	NC	NC	0	0
3-Nitrotoluene	6	0	NA	NA	NA	NC	NC	0	0
4-Amino-2,6-dinitrotoluene	6	0	NA	NA	NA	NC	NC	0	0
4-Nitrotoluene	6	0	NA	NA	NA	NC	NC	0	0
HMX	6	0	NA	NA	NA	NC	NC	0	0
Nitrobenzene	6	0	NA	NA	NA	NC	NC	0	0
Nitroglycerin	6	0	NA	NA	NA	NC	NC	0	0
PETN	6	0	NA	NA	NA	NC	NC	0	0
RDX	6	0	NA	NA	NA	NC	NC	0	0
Tetryl	6	0	NA	NA	NA	NC	NC	0	0
Perchlorate	6	0	NA	NA	NA	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	6	6	867	2,261	3,440	0	NC	0	0
Antimony	6	1	4.26	4.26	4.26	1	1	1	0
Arsenic	6	4	0.418	0.91	1.7	1	0	1	0
Barium	6	6	2.4	6.0	11	0	0	0	0
Beryllium	6	4	0.0189	0.05	0.09	0	0	0	0
Cadmium	6	3	0.02	0.072	0.102	0	0	0	0
Calcium	6	6	67.2	3,417	17,400	1	NC	NC	NC
Chromium	6	6	2.22	3.3	5.7	0	0	0	0
Cobalt	6	5	0.135	0.20	0.28	0	0	0	0
Copper	6	6	0.525	20. 7	64.1	2	0	0	0
Iron	6	6	918	1,264	1,670	0	0	0	0
Lead	6	6	2.48	69.8	371	2	1	0	0
Magnesium	6	5	32.7	262	1,070	0	NC	NC	NC
Manganese	6	6	1.62	6.4	14.1	0	0	0	0
Mercury	6	3	0.0239	0.0270	0.0323	0	0	0	0
Nickel	6	6	0.541	0.657	0.896	0	0	0	0
Potassium	6	5	51.3	97.9	266	0	NC	NC	NC
Selenium	6	1	0.339	0.339	0.339	0	0	0	0
Silver	6	0	NA	NA	NA	0	0	0	0
Sodium	6	4	4.72	870	3440	0	NC	NC	NC
Thallium	6	0	NA	NA	NA	NC	0	0	0
Vanadium	6	6	2.75	3.67	5.23	0	0	0	0
Zinc	6	6	1.01	25.2	93.1	1	0	0	0

TABLE 9
Summary Statistics of Samples Collected from Outside of the Crater at Multiple Items/Single Detonation Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	4	0	NA	NA	NA	NC	NC	0	0
1,3-Dinitrobenzene	4	0	NA	NA	NA	NC	NC	0	0
2,4,6-Trinitrotoluene	4	0	NA	NA	NA	NC	NC	0	0
2,4-Dinitrotoluene	4	0	NA	NA	NA	NC	0	0	0
2,6-Dinitrotoluene	4	0	NA	NA	NA	NC	NC	0	0
2-Amino-4,6-dinitrotoluene	4	0	NA	NA	NA	NC	NC	0	0
2-Nitrotoluene	4	0	NA	NA	NA	NC	NC	0	0
3-Nitrotoluene	4	0	NA	NA	NA	NC	NC	0	0
4-Amino-2,6-dinitrotoluene	4	0	NA	NA	NA	NC	NC	0	0
4-Nitrotoluene	4	0	NA	NA	NA	NC	NC	0	0
HMX	4	0	NA	NA	NA	NC	NC	0	0
Nitrobenzene	4	0	NA	NA	NA	NC	NC	0	0
Nitroglycerin	4	0	NA	NA	NA	NC	NC	0	0
PETN	4	0	NA	NA	NA	NC	NC	0	0
RDX	4	0	NA	NA	NA	NC	NC	0	0
Tetryl	4	0	NA	NA	NA	NC	NC	0	0
Perchlorate	4	0	NA	NA	NA	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	4	4	2,940	3,520	3,990	0	NC	0	0
Antimony	4	0	NA	NA	NA	0	0	0	0
Arsenic	4	0	NA	NA	NA	0	0	0	0
Barium	4	4	5.57	9.63	14.6	0	0	0	0
Beryllium	4	3	0.0222	0.0462	0.0603	0	0	0	0
Cadmium	4	3	0.109	0.157	0.222	1	0	0	0
Calcium	4	4	66.8	939.7	1,680	0	NC	NC	NC
Chromium	4	4	3.05	3.4175	3.69	0	0	0	0
Cobalt	4	1	0.235	0.235	0.235	0	0	0	0
Copper	4	4	1.03	2.35	5.49	0	0	0	0
Iron	4	4	904	1,143	1,350	0	0	0	0
Lead	4	4	3.32	11.31	21.4	0	NC	NC	NC
Magnesium	4	3	90.1	99	106	0	0	0	0
Manganese	4	4	2.18	7.0125	14.3	0	0	0	0
Mercury	4	3	0.0028	0.0156	0.0255	0	0	0	0
Nickel	4	4	0.561	0.79	1.01	0	0	0	0
Potassium	4	3	53.6	66.4	89.5	0	NC	NC	NC
Selenium	4	2	0.536	0.577	0.617	0	0	0	0
Silver	4	0	NA	NA	NA	0	0	0	0
Sodium	4	2	5.72	10	14.3	0	NC	NC	NC
Thallium	4	0	NA	NA	NA	NC	0	0	0
Vanadium	4	4	3.71	4.14	4.68	0	0	0	0
Zinc	4	4	1.53	52	92	2	0	0	0

TABLE 10
Summary Statistics of Surface Soil Samples Collected from Multiple Items/Multiple Detonations Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	22	0	NA	NA	NA	NC	NC	NA	NA
1,3-Dinitrobenzene	22	0	NA	NA	NA	NC	NC	NA	NA
2,4,6-Trinitrotoluene	22	0	NA	NA	NA	NC	NC	NA	NA
2,4-Dinitrotoluene	22	0	NA	NA	NA	NC	0	NA	NA
2,6-Dinitrotoluene	22	0	NA	NA	NA	NC	NC	NA	NA
2-Amino-4,6-dinitrotoluene	22	0	NA	NA	NA	NC	NC	NA	NA
2-Nitrotoluene	22	0	NA	NA	NA	NC	NC	NA	NA
3-Nitrotoluene	22	0	NA	NA	NA	NC	NC	NA	NA
4-Amino-2,6-dinitrotoluene	22	0	NA	NA	NA	NC	NC	NA	NA
4-Nitrotoluene	22	0	NA	NA	NA	NC	NC	NA	NA
HMX	22	4	87.3	290	799	NC	NC	0	0
Nitrobenzene	22	0	NA	NA	NA	NC	NC	NA	NA
Nitroglycerin	22	0	NA	NA	NA	NC	NC	NA	NA
PETN	22	0	NA	NA	NA	NC	NC	NA	NA
RDX	22	16	111	350	674	NC	NC	0	0
Tetryl	22	0	NA	NA	NA	NC	NC	NA	NA
Perchlorate	22	1	1.73	1.73	1.73	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	6	6	1,260	2,448	3,880	0	NC	0	0
Antimony	6	0	NA	NA	NA	0	0	0	0
Arsenic	6	6	0.263	1.79	2.7	4	0	4	0
Barium	6	6	11.7	13.0	14.5	0	0	0	0
Beryllium	6	6	3.2	8.6	14.5	0	0	0	0
Cadmium	6	6	0.0195	0.09	0.13	3	0	0	0
Calcium	6	6	0.03	0.29	0.525	4	NC	NC	NC
Chromium	6	6	24.4	14,225	29300	3	3	3	3
Cobalt	6	6	1.07	11.9	20.9	3	2	0	0
Copper	6	6	0.055	0.58	1.08	1	0	0	0
Iron	6	6	1.28	2.2	5.1	0	0	0	0
Lead	6	6	702	2,128	3160	0	0	0	0
Magnesium	6	6	1.55	2.41	3.84	0	NC	NC	NC
Manganese	6	6	20	466	1320	0	0	0	0
Mercury	6	1	0.00832	0.00832	0.00832	NA	0	0	0
Nickel	6	6	0.453	3.12	5.72	3	0	0	0
Potassium	6	6	26.6	275	413	3	NC	NC	NC
Selenium	6	3	0.624	0.635	0.644	0	0	0	0
Silver	6	0	NA	NA	NA	0	0	0	0
Sodium	6	5	6.94	728	2,830	1	NC	NC	NC
Thallium	6	3	0.196	0.20	0.21	NC	0	3	0
Vanadium	6	6	1.71	7.8	12.5	0	0	0	0
Zinc	6	6	6.1	12.53	17	0	0	0	0

TABLE 11
Summary Statistics of Subsurface Soil Samples Collected from DUs at Multiple Items/Multiple Detonations (CDA) Locations

Analyte	Number Results	Number Detects	Minimum Detect	Average Detect	Maximum Detect	Number BTV Exceedances	Number NC SSL Exceedances	Number Residential RSL Exceedances	Number Industrial RSL Exceedances
Explosives Residues and Perchlorate (µg/kg)									
1,3,5-Trinitrobenzene	5	0	NA	NA	NA	NC	NC	0	0
1,3-Dinitrobenzene	5	0	NA	NA	NA	NC	NC	0	0
2,4,6-Trinitrotoluene	5	0	NA	NA	NA	NC	NC	0	0
2,4-Dinitrotoluene	5	0	NA	NA	NA	NC	0	0	0
2,6-Dinitrotoluene	5	0	NA	NA	NA	NC	NC	0	0
2-Amino-4,6-dinitrotoluene	5	0	NA	NA	NA	NC	NC	0	0
2-Nitrotoluene	5	0	NA	NA	NA	NC	NC	0	0
3-Nitrotoluene	5	0	NA	NA	NA	NC	NC	0	0
4-Amino-2,6-dinitrotoluene	5	0	NA	NA	NA	NC	NC	0	0
4-Nitrotoluene	5	0	NA	NA	NA	NC	NC	0	0
HMX	5	0	NA	NA	NA	NC	NC	0	0
Nitrobenzene	5	0	NA	NA	NA	NC	NC	0	0
Nitroglycerin	5	0	NA	NA	NA	NC	NC	0	0
PETN	5	0	NA	NA	NA	NC	NC	NA	NA
RDX	5	3	338	464	598	NC	NC	0	0
Tetryl	5	0	NA	NA	NA	NC	NC	NA	NA
Perchlorate	5	1	34.3	34.3	34.3	NC	NC	0	0
Total Metals (mg/kg)									
Aluminum	1	1	9,220	9,220	9,220	0	NC	0	0
Antimony	1	0	NA	NA	NA	0	0	0	0
Arsenic	1	1	2.19	2.19	2.19	0	0	0	0
Barium	1	1	32.2	32.2	32.2	1	0	0	0
Beryllium	1	1	0.155	0.155	0.155	0	0	0	0
Cadmium	1	1	0.275	0.275	0.275	1	0	0	0
Calcium	1	1	16,300	16,300	16,300	1	NC	NC	NC
Chromium	1	1	12.8	12.8	12.8	0	0	0	0
Cobalt	1	1	0.76	0.76	0.76	0	0	0	0
Copper	1	1	4.98	4.98	4.98	0	0	0	0
Iron	1	1	4,660	4,660	4,660	0	0	0	0
Lead	1	1	8.66	8.66	8.66	0	0	0	0
Magnesium	1	1	472	472	472	0	NC	NC	NC
Manganese	1	1	31.5	31.5	31.5	1	0	0	0
Mercury	1	1	0.0121	0.0121	0.0121	0	0	0	0
Nickel	1	1	4.23	4.23	4.23	0	0	0	0
Potassium	1	1	328	328	328	0	NC	NC	NC
Selenium	1	1	0.368	0.368	0.368	0	0	0	0
Silver	1	0	NA	NA	NA	0	0	0	0
Sodium	1	1	115	115	115	0	NC	NC	NC
Thallium	1	0	NA	NA	NA	NC	0	0	0
Vanadium	1	1	12.5	12.5	12.5	0	0	0	0
Zinc	1	1	20.2	20.2	20.2	1	0	0	0

TABLE 12
Detonation Locations with Explosives Residue Exceedances of Regulatory Screening Criteria

			Samples Collected Inside of Crater					Samples Collected Outside of Crater				
Site	Anomaly ID	Item Description	Sample ID	Explosives Residues and Perchlorate Detections	Explosives Residues Above Adjusted Residential RSL	Explosives Residues Above Adjusted Industrial RSL	Explosives Residues Above NC SSL	Sample ID	Explosives Residue Detections	Explosives Residues Above Adjusted Residential RSL	Explosives Residues Above Adjusted Industrial RSL	Explosives Residues Above NC SSL
UXO-19	C5I5H3-00427	Mortar Projectile, 81mm, M56	CDCA-SS104-IC-11B	No Detections	NE	NE	NE	CDCA-SS104-OC-11B	**Nitroglycerin**	**Nitroglycerin**	NE	NE
	C5I5D2-00055	Mortar Projectile, 60mm, M49A2	CDCA-SS111-IC-11B	**2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**, 2-Amino-4,6-dinitrotoluene, 4-Amino-2,6-dinitrotoluene, and Perchlorate	**2,4,6-Trinitrotoluene**	**2,4,6-Trinitrotoluene**	**2,4-Dinitrotoluene**	CDCA-SS111-OC-11B	Perchlorate	NE	NE	NE
	C5I5E4-00147	Mortar Projectile, 81mm, M43	CDCA-SS113-IC-11B	1,3,5-Trinitrobenzene, **2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 4-Amino-2,6-dinitrotoluene, and Perchlorate	**2,4,6-Trinitrotoluene and 2,4-Dinitrotoluene**	**2,4,6-Trinitrotoluene**	**2,4-Dinitrotoluene**	CDCA-SS113-OC-11B	2,4,6-Trinitrotoluene, 2-Amino-4,6-dinitrotoluene, and 4-Amino-2,6-dinitrotoluene	NE	NE	NE
	C5J5E4-00367	Mortar Projectile, 81mm, M56	CDCA-SS160-IC-11C	**Nitroglycerin**	**Nitroglycerin**	NE	NE	CDCA-SS159-OC-11C	**Nitroglycerin**	**Nitroglycerin**	NE	NE
	C5J5E5-00269	Mortar Projectile, 60mm, M49A2	CDCA-SS162-IC-11C	1,3-Dinitrobenzene, **Nitroglycerin**	**Nitroglycerin**	NE	NE	CDCA-SS161-OC-11C	Nitroglycerin	NE		
	C5J5E5-00309	Mortar Projectile, 60mm, M49A2	CDCA-SS164-IC-11C	**Nitroglycerin**	**Nitroglycerin**	NE	NE	CDCA-SS163-OC-11C	**Nitroglycerin**	**Nitroglycerin**	NE	NE
	C5J5A2-00311	Mortar Projectile, 81mm, M56	CDCA-SS170-IC-11C	**2-Nitrotoluene**	**2-Nitrotoluene**	NE	NE	CDCA-SS169-OC-11C	2-Nitrotoluene	NE	NE	NE
	T20-00017	Mortar Cartridge, 81mm, M43	CDCA-SSBIP01-10A	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, **2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, and Nitroglycerin	**2,4,6-Trinitrotoluene**	NE	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS
	T20-00015	Mortar Cartridge, 81mm, M43	CDCA-SSBIP02-10A	1,3-Dinitrobenzene, **2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 3-nitrotoluene, 4-Amino-2,6-dinitrotoluene, 4-Nitrotoluene, HMX, Nitroglycerin, and Tetryl	**2,4,6-Trinitrotoluene**	**2,4,6-Trinitrotoluene**	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS
	T18-00017	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP03-10A	1,3-Dinitrobenzene, **2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 4-Amino-2,6-dinitrotoluene, HMX, Nitroglycerin, and RDX	**2,4,6-Trinitrotoluene**	NE	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS
	TTL-00015	Mortar Cartridge, 81mm, M43	CDCA-SSBIP04-10A	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, **2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 4-Amino-2,6-dinitrotoluene, HMX, Nitroglycerin, RDX, and Tetryl	**2,4,6-Trinitrotoluene**	NE	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS
	T53-00050	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP05-10A	1,3-Dinitrobenzene, **2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**, 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, 4-Amino-2,6-dinitrotoluene, and Tetryl	**2,4,6-Trinitrotoluene**	**2,4,6-Trinitrotoluene**	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS

TABLE 12
Detonation Locations with Explosives Residue Exceedances of Regulatory Screening Criteria

Site	Anomaly ID	Anomaly ID	Samples Collected Inside of Crater					Samples Collected Outside of Crater				
			Sample ID	Explosives Residues and Perchlorate Detections	Explosives Residues Above Adjusted Residential RSL	Explosives Residues Above Adjusted Industrial RSL	Explosives Residues Above NC SSL	Sample ID	Explosives Residue Detections	Explosives Residues Above Adjusted Residential RSL	Explosives Residues Above Adjusted Industrial RSL	Explosives Residues Above NC SSL
UXO-19 (con't)	T52-00041	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP06-10A	**2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene,** 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, Nitroglycerin, RDX, and Tetryl	**2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene**	NE	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS
	T44-00016	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP07-10A	1,3,5-Trinitrobenzene, 1,3-Dinitrobenzene, **2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene,** 2,6-Dinitrotoluene, 2-Amino-4,6-dinitrotoluene, Nitroglycerin, Perchlorate, RDX, and Tetryl	**2,4,6-Trinitrotoluene**	NE	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS
UXO-06	F4E6A3-00029	Rocket, 3.5 Inch, HEAT, M28A2	MR06-SS83-0-6-09D	**2,4,6-Trinitrotoluene, 2,4-Dinitrotoluene,** 2-Amino-4,6-dinitrotoluene, 4-Amino-2,6-dinitrotoluene, HMX, Nitroglycerin, and RDX	**2,4,6-Trinitrotoluene and RDX**	**RDX**	**2,4-Dinitrotoluene**	NS	NS	NS	NS	NS

Notes:

Bold Font indicates that the explosive residue exceeded regulatory screening criteria

HEAT = high explosive anti-tank

NE = No Exceedances

NS = Not Sampled

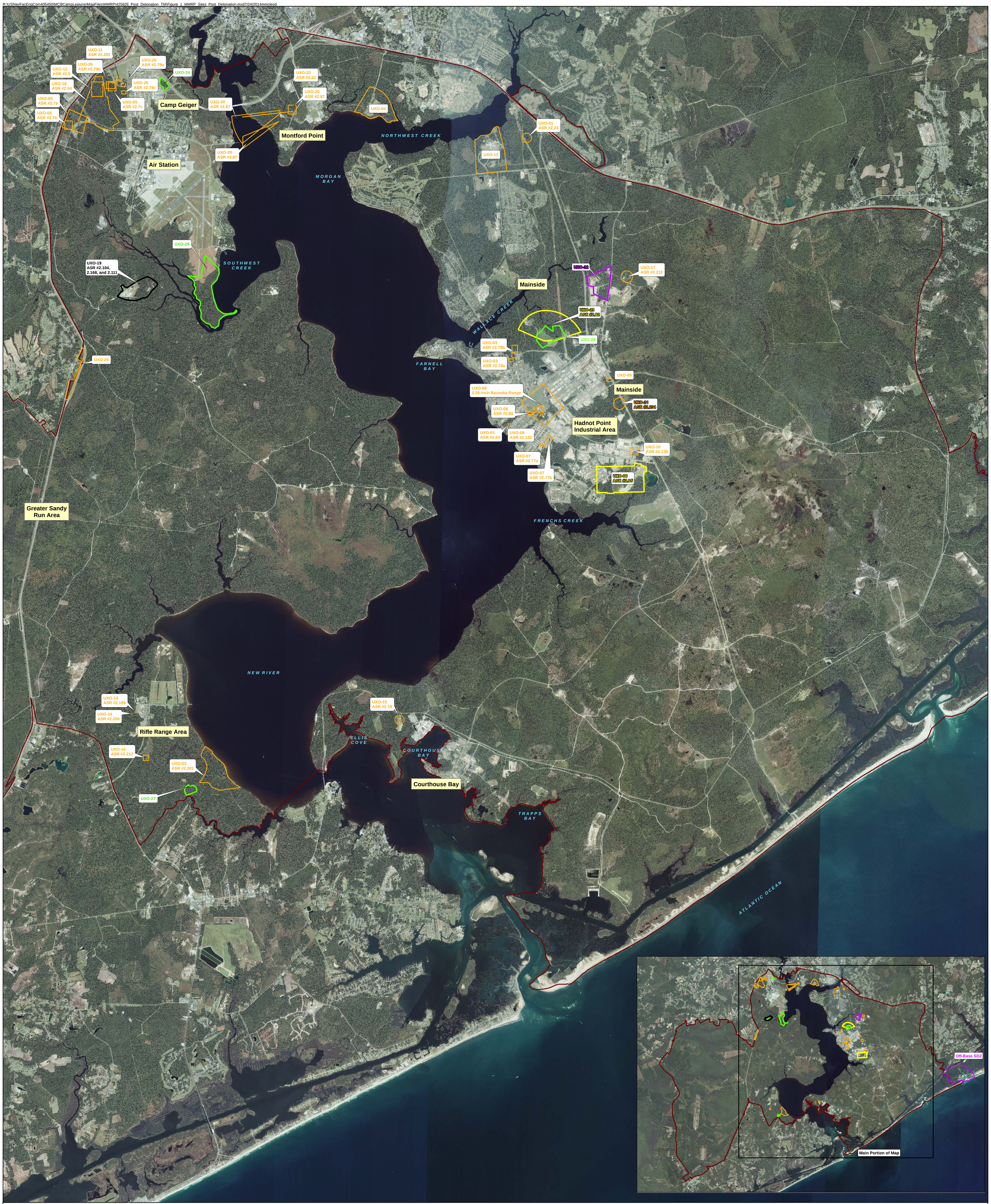
TABLE 14
Metal Exceedances at Detonation Locations with Explosives Residues Exceedances of Regulatory Screening Criteria

Site	Anomaly ID	Item Description	Samples Collected Inside of Crater					Samples Collected Outside of Crater				
			Sample ID	Metal Detections Above BTVs	Metals Above Adjusted Residential RSL	Metals Above Adjusted Industrial RSL	Metals Above NC SSL	Sample ID	Metal Detections Above BTVs	Metals Above Adjusted Residential RSL	Metals Above Adjusted Industrial RSL	Metals Above NC SSL
UXO-19	C5I5H3-00427	Mortar Projectile, 81mm, M56	CDCA-SS104-IC-11B	No Detections above BTV	NE	NE	NE	CDCA-SS104-OC-11B	No Detections above BTV	NE	NE	NE
	C5I5D2-00055	Mortar Projectile, 60mm, M49A2	CDCA-SS111-IC-11B	Manganese	NE	NE	NE	CDCA-SS111-OC-11B	**Arsenic, Cobalt, Iron, and Manganese**	**Arsenic, Cobalt, Iron, and Manganese**	NE	**Cobalt and Manganese**
	C5I5E4-00147	Mortar Projectile, 81mm, M43	CDCA-SS113-IC-11B	No Detections above BTV	NE	NE	NE	CDCA-SS113-OC-11B	No Detections above BTV	NE	NE	NE
	C5J5E4-00367	Mortar Projectile, 81mm, M56	CDCA-SS160-IC-11C	Manganese	NE	NE	NE	CDCA-SS159-OC-11C	Manganese	NE	NE	NE
	C5J5E5-00269	Mortar Projectile, 60mm, M49A2	CDCA-SS162-IC-11C	Manganese	NE	NE	NE	CDCA-SS161-OC-11C	Manganese	NE	NE	NE
	C5J5E5-00309	Mortar Projectile, 60mm, M49A2	CDCA-SS164-IC-11C	Manganese	NE	NE	NE	CDCA-SS163-OC-11C	Manganese	NE	NE	NE
	C5J5A2-00311	Mortar Projectile, 81mm, M56	CDCA-SS170-IC-11C	**Arsenic and Cobalt**	**Arsenic**	NE	NE	CDCA-SS169-OC-11C	**Arsenic and Cobalt**	**Arsenic**	NE	NE
	T20-00017	Mortar Cartridge, 81mm, M43	CDCA-SSBIP01-10A	Arsenic	NE	NE	NE	NS	NS	NS	NS	NS
	T20-00015	Mortar Cartridge, 81mm, M43	CDCA-SSBIP02-10A	No Detections above BTV	NE	NE	NE	NS	NS	NS	NS	NS
	T18-00017	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP03-10A	Arsenic	NE	NE	NE	NS	NS	NS	NS	NS
	TTL-00015	Mortar Cartridge, 81mm, M43	CDCA-SSBIP04-10A	No Detections above BTV	NE	NE	NE	NS	NS	NS	NS	NS
	T53-00050	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP05-10A	No Detections above BTV	NE	NE	NE	NS	NS	NS	NS	NS
	T52-00041	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP06-10A	No Detections above BTV	NE	NE	NE	NS	NS	NS	NS	NS
	T44-00016	Mortar Cartridge, 60mm, M49A2	CDCA-SSBIP07-10A	No Detections above BTV	NE	NE	NE	NS	NS	NS	NS	NS
UXO-06	F4E6A3-00029	Rocket, 3.5 Inch, HEAT, M28A2	MR06-SS83-0-6-09D	No Detections above BTV	NE	NE	NE	NS	NS	NS	NS	NS

Notes:
Bold Font indicates that the explosive residue exceeded regulatory screening criteria
NE = No Exceedances
NS = Not Sampled

Figures

R:\USNavFacEngCom405450\MCBCampLejeune\MapFiles\MMRP\425626_Post_Detonation_TM\Figure_1_MMRP_Sites_Post_Detonation.mxd7/24/2014mmcleod



Legend

- NFA Sites
- ESI Sites
- PA/SI Sites
- PRAP/ROD Sites
- RI/FS Sites
- Installation Boundary

N

0 2,500 5,000 10,000 Feet

1 inch = 2,500 feet

FIGURE 1
MMRP Sites
Post-Detonation Sampling TM
MCIEAST-MCB CAMLEJ

CH2MHILL

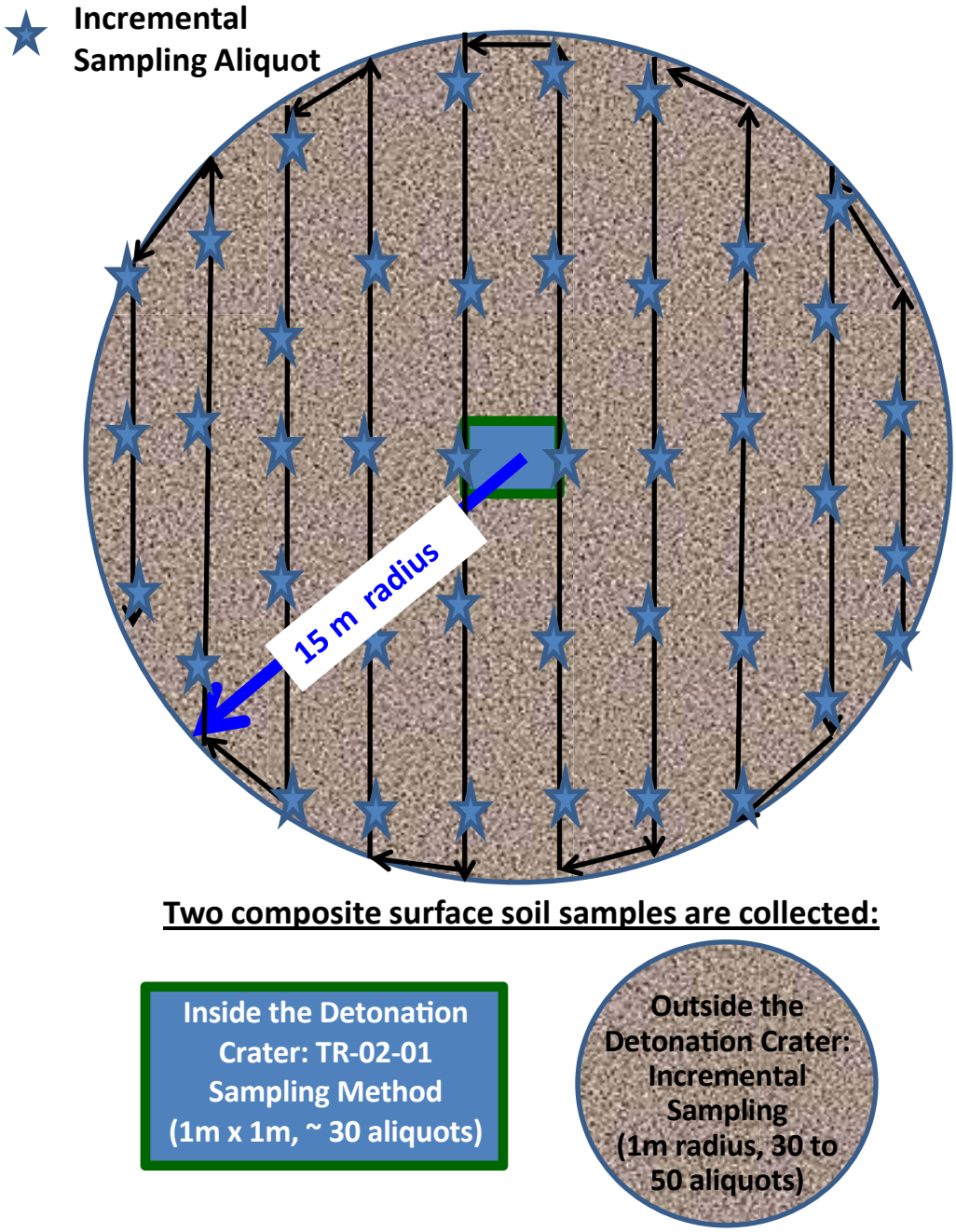


FIGURE 2
Sampling Approach at Single Detonation Locations
Post-Detonation Sampling TM
MCIEAST-MCB CAMLEJ

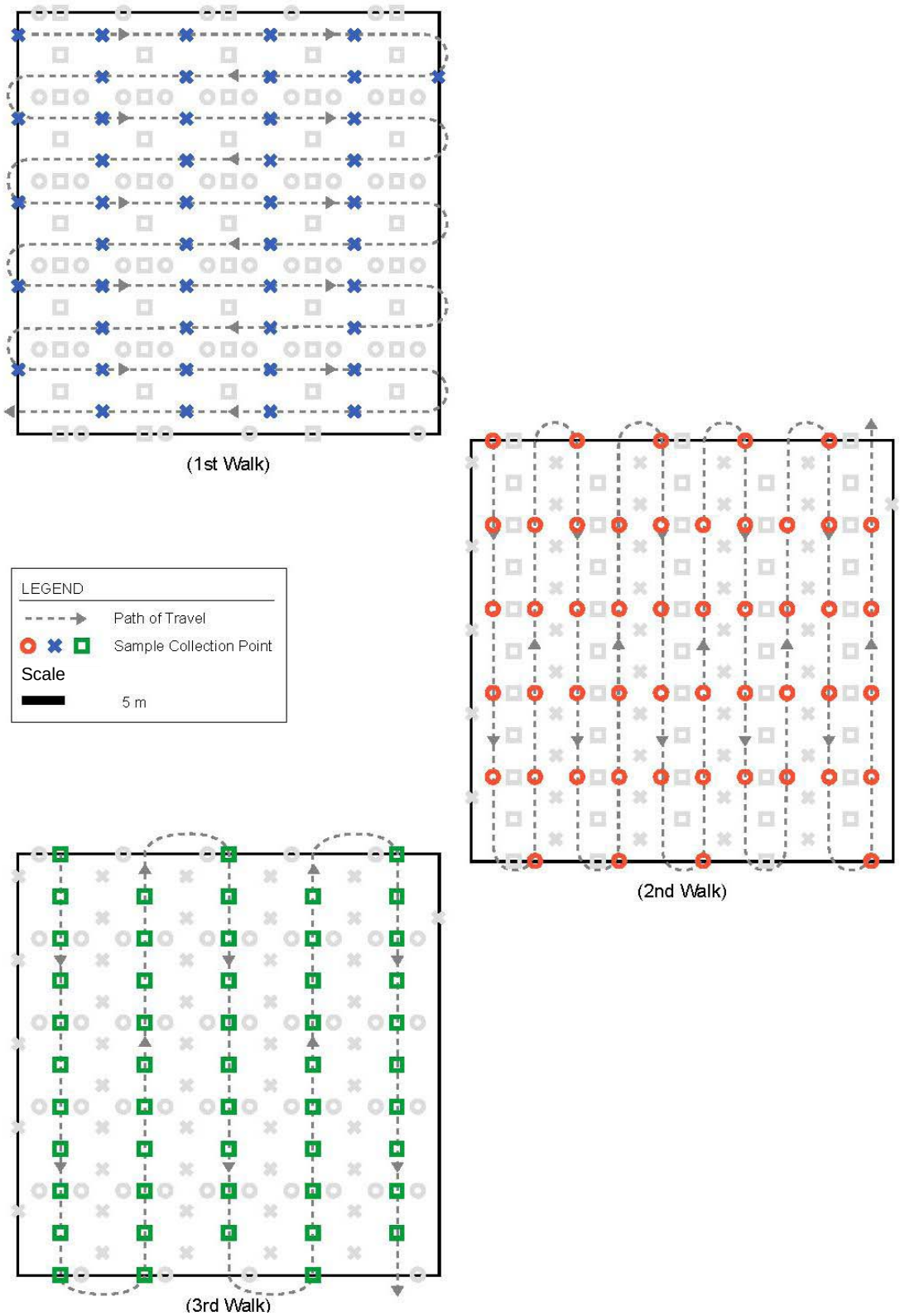
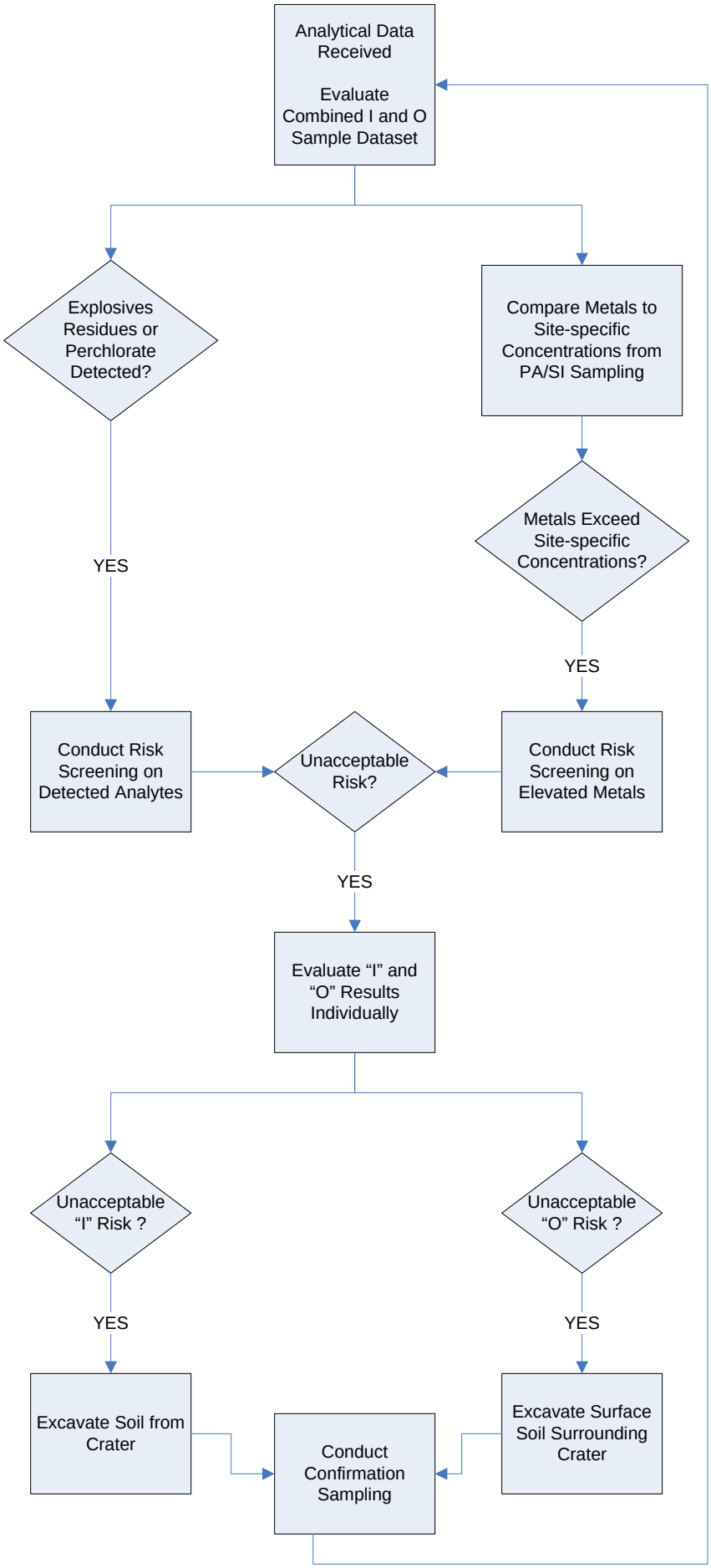


FIGURE 3
Systematic-Random Multi-Increment Sampling Pattern
Post-Detonation Sampling TM
MCIEAST-MCB CAMLEJ



Each post-detonation sampling location to be evaluated independently (do not combine data from multiple detonation locations).

"I" - Interior sample (center of detonation crater)

"O" - Outside sample (ejected soil surrounding detonation crater)

FIGURE 4
Post-Detonation Data Evaluation Process
Post-Detonation Sampling TM
MCIEAST-MCB CAMLEJ

Attachment 1

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	1,3,5-Trinitrobenzene	620	UG_KG	U			3200000	220000						370	620	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	1,3-Dinitrobenzene	620	UG_KG	U			8200	620						380	620	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	2,4,6-Trinitrotoluene	620	UG_KG	U			52000	3600						360	620	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	2,4-Dinitrotoluene	1200	UG_KG	U		1.6	3400	780						400	1200	01/27/10	SVOA	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	2,6-Dinitrotoluene	1200	UG_KG	U			3400	780						590	1200	01/27/10	SVOA	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	2-Amino-4,6-dinitrotoluene	1200	UG_KG	U			230000	15000						480	1200	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	2-Nitrotoluene	1200	UG_KG	U			15000	3200						730	1200	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	3-Nitrotoluene	1200	UG_KG	U			8200	620						610	1200	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	4-Amino-2,6-dinitrotoluene	1200	UG_KG	U			230000	15000						490	1200	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	4-Nitrotoluene	1200	UG_KG	U			140000	25000						640	1200	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Aluminum	358	MG_KG		12800		100000	7700	Y					3.5	20.4	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Antimony	0.46	MG_KG	J	1.87	0.9	47	3.1	Y					0.3	1	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Arsenic	0.41	MG_KG	J	1.17	5.8	3	0.67	Y					0.3	1	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Barium	1.9	MG_KG	J	36.7	580	22000	1500	Y					0.03	20.4	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Beryllium	0.51	MG_KG	U	0.195	63	230	16						0.02	0.51	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Cadmium	0.51	MG_KG	U	0.2	3	98	7						0.03	0.51	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Calcium	1580	MG_KG		8470				Y					9.8	511	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Chromium	4.4	MG_KG		17.4	3.8	6.3	0.3	Y					0.1	1	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Cobalt	0.13	MG_KG	J	0.414	0.9	35	2.3	Y					0.08	0.51	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Copper	0.86	MG_KG		17.1	700	4700	310	Y					0.15	0.51	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	HMX	620	UG_KG	U			5700000	380000						470	620	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Iron	693	MG_KG		7210	150	82000	5500	Y					1.9	10.2	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Lead	1.7	MG_KG	J	27.5	270	800	400	Y					0.18	0.31	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Magnesium	4500	MG_KG	J	904				Y	Y				0.98	511	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Manganese	5.8	MG_KG		37	65	2600	180	Y					0.03	1	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Mercury	0.034	MG_KG	U	0.161	1	35	2.3						0.017	0.034	01/27/10	METAL	7471A	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Nickel	0.36	MG_KG	J	3.11	130	2200	150	Y					0.1	4.1	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Nitrobenzene	620	UG_KG	U			22000	5100						450	620	01/27/10	SVOA	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Nitroglycerin	4000	UG_KG	U			8200	620						220	4000	01/27/10	EXPLO	8332	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Perchlorate	2.1	UG_KG	UJ			82000	5500						0.19	2.1	01/27/10	EXPLO	6850	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	PETN	2500	UG_KG	U			160000	12000						2000	2500	01/27/10	EXPLO	8332	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Potassium	511	MG_KG	U	359									1.8	511	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	RDX	620	UG_KG	U			28000	6000						340	620	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Selenium	0.51	MG_KG	U	1.59	1.5	580	39						0.37	0.51	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Silver	0.51	MG_KG	U	0.354	3.4	580	39						0.1	0.51	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Sodium	511	MG_KG	U	250									31.2	511	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Tetryl	1200	UG_KG	R			160000	12000						970	1200	01/27/10	EXPLO	8330	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Thallium	1	MG_KG	U		0.28	1.2	0.078						0.54	1	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Vanadium	2	MG_KG	U	17.6	6	580	39						0.07	2	01/27/10	METAL	6010B	SS
Off-Base SDZs	PA/SI	Single Item/Single Detonation	Inside of Crater	BI-SS60-10A	N	Zinc	24.6	MG_KG		28.6	1200	35000	2300	Y					0.05	2	01/27/10	METAL	6010B	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	1,3,5-Trinitrobenzene	50	UG_KG	U			3200000	220000						6.7	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	1,3-Dinitrobenzene	50	UG_KG	U			8200	620						6.2	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	2,4,6-Trinitrotoluene	50	UG_KG	U			52000	3600						6.7	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	2,4-Dinitrotoluene	50	UG_KG	U			3400	780						15	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	2,6-Dinitrotoluene	50	UG_KG	U			3400	780						27	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	2-Amino-4,6-dinitrotoluene	50	UG_KG	U			230000	15000						21	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	2-Nitrotoluene	50	UG_KG	U			15000	3200						12	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	3-Nitrotoluene	50	UG_KG	U			8200	620						7.9	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	4-Amino-2,6-dinitrotoluene	50	UG_KG	U			230000	15000						17	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	4-Nitrotoluene	50	UG_KG	U			140000	25000						27	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Aluminum	867	MG_KG		2040		100000	7700	Y					0.62	26	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Antimony	0.43	MG_KG	U	1.31	0.9	47	3.1						0.06	0.7	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Arsenic	1.7	MG_KG		1.432	5.8	3	0.67	Y	Y			Y	0.06	0.7	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Barium	2.4	MG_KG		16.68	580	22000	1500	Y					0.02	0.43	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Beryllium	0.09	MG_KG	J	0.195	63	230	16	Y					0.006	0.43	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Cadmium	0.02	MG_KG	J	0.53	3	98	7	Y					0.007	0.43	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Calcium	17400	MG_KG		9580				Y	Y				1.55	8.7	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Chromium	5.7	MG_KG		12.22	3.8	6.3	0.3	Y					0.02	0.87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Cobalt	0.28	MG_KG	J	0.606	0.9	35	2.3	Y					0.03	0.87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Copper	44	MG_KG		1.594	700	4700	310	Y	Y				0.14	2.2	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	HMX	50	UG_KG	U			5700000	380000						8.6	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Iron	1540	MG_KG		3120	150	82000	5500	Y					1.23	8.7	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Lead	13.2	MG_KG		6.14	270	800	400	Y	Y				0.08	0.43	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Magnesium	1070	MG_KG		1412				Y					0.59	8.7	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Manganese	13.5	MG_KG		27.6	65	2600	180	Y					0.14	0.43	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Mercury	0.022	MG_KG	U	0.0764	1	35	2.3						0.006	0.042	05/09/13	METAL	7471A	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Nickel	0.66	MG_KG	J	1.77	130	2200	150	Y					0.04	0.87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Nitrobenzene	50	UG_KG	U			22000	5100						22	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Nitroglycerin	400	UG_KG	U			8200	620						120	800	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Perchlorate	1.21	UG_KG	U			82000	5500						1.21	2.41	05/09/13	EXPLO	6850	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	PETN	400	UG_KG	U			160000	12000						110	800	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Potassium	266	MG_KG		592				Y					2.52	87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	RDX	50	UG_KG	U			28000	6000						6.8	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Selenium	0.61	MG_KG	U	1.59	1.5	580	39						0.15	0.87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Silver	0.35	MG_KG	U	0.354	3.4	580	39						0.02	0.87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Sodium	3440	MG_KG		736				Y					1.28	87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Tetryl	50	UG_KG	U			160000	12000						5.4	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Thallium	0.43	MG_KG	U		0.28	1.2	0.078						0.07	1.3	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Vanadium	3.3	MG_KG		6.38	6	580	39	Y					0.03	0.87	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Single Detonation	Inside of Crater	SDZ-SS-IC01-13B	N	Zinc	4.9	MG_KG	J	11.7	1200	35000	2300	Y					0.15	1.7	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	1,3,5-Trinitrobenzene	66	UG_KG	U			3200000	220000						8.9	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	1,3-Dinitrobenzene	66	UG_KG	U			8200	620						8.2	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	2,4,6-Trinitrotoluene	66	UG_KG	U			52000	3600						8.9	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	2,4-Dinitrotoluene	66	UG_KG	U			3400	780						20	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	2,6-Dinitrotoluene	66	UG_KG	U			3400	780						36	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	2-Amino-4,6-dinitrotoluene	66	UG_KG	U			230000	15000						28	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	2-Nitrotoluene	66	UG_KG	U			15000	3200						16	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	3-Nitrotoluene	66	UG_KG	U			8200	620						10	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	4-Amino-2,6-dinitrotoluene	66	UG_KG	U			230000	15000						22	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	4-Nitrotoluene	66	UG_KG	U			140000	25000						36	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Aluminum	1460	MG_KG		2040		100000	7700	Y					0.58	24	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Antimony	0.4	MG_KG	U	1.31	0.9	47	3.1						0.06	0.65	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Arsenic	2	MG_KG		1.432	5.8	3	0.67	Y	Y			Y	0.06	0.65	05/09/13	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Barium	3.3	MG_KG		16.68	580	22000	1500	Y					0.02	0.4	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Beryllium	0.12	MG_KG	J	0.195	63	230	16	Y					0.006	0.4	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Cadmium	0.12	MG_KG	J	0.53	3	98	7	Y					0.006	0.4	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Calcium	21500	MG_KG		9580				Y	Y				1.44	8.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Chromium	7.6	MG_KG		12.22	3.8	6.3	0.3	Y					0.02	0.81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Cobalt	0.36	MG_KG	J	0.606	0.9	35	2.3	Y					0.02	0.81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Copper	29.3	MG_KG		1.594	700	4700	310	Y	Y				0.13	2	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	HMX	66	UG_KG	U			5700000	380000						11	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Iron	2060	MG_KG		3120	150	82000	5500	Y					1.15	8.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Lead	8.8	MG_KG		6.14	270	800	400	Y	Y				0.07	0.4	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Magnesium	1410	MG_KG		1412				Y					0.55	8.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Manganese	21.6	MG_KG		27.6	65	2600	180	Y					0.13	0.4	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Mercury	0.019	MG_KG	U	0.0764	1	35	2.3						0.006	0.038	05/09/13	METAL	7471A	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Nickel	1.2	MG_KG		1.77	130	2200	150	Y					0.04	0.81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Nitrobenzene	66	UG_KG	U			22000	5100						29	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Nitroglycerin	530	UG_KG	U			8200	620						160	1100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Perchlorate	1.22	UG_KG	U			82000	5500						1.22	2.43	05/09/13	EXPLO	6850	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	PETN	530	UG_KG	U			160000	12000						140	1100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Potassium	392	MG_KG		592				Y					2.35	81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	RDX	66	UG_KG	U			28000	6000						9	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Selenium	0.57	MG_KG	U	1.59	1.5	580	39						0.14	0.81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Silver	0.32	MG_KG	U	0.354	3.4	580	39						0.02	0.81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Sodium	4210	MG_KG		736				Y					1.2	81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Tetryl	66	UG_KG	U			160000	12000						7.2	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Thallium	0.4	MG_KG	U		0.28	1.2	0.078						0.07	1.2	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Vanadium	4.9	MG_KG		6.38	6	580	39	Y					0.03	0.81	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC02-13B	N	Zinc	6.6	MG_KG	J	11.7	1200	35000	2300	Y					0.14	1.6	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	1,3,5-Trinitrobenzene	58	UG_KG	U			3200000	220000						7.8	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	1,3-Dinitrobenzene	58	UG_KG	U			8200	620						7.2	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	2,4,6-Trinitrotoluene	58	UG_KG	U			52000	3600						7.8	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	2,4-Dinitrotoluene	58	UG_KG	U			3400	780						17	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	2,6-Dinitrotoluene	58	UG_KG	U			3400	780						31	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	2-Amino-4,6-dinitrotoluene	58	UG_KG	U			230000	15000						24	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	2-Nitrotoluene	58	UG_KG	U			15000	3200						14	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	3-Nitrotoluene	58	UG_KG	U			8200	620						9.2	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	4-Amino-2,6-dinitrotoluene	58	UG_KG	U			230000	15000						20	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	4-Nitrotoluene	58	UG_KG	U			140000	25000						31	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Aluminum	1550	MG_KG		2040		100000	7700	Y					0.78	33	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Antimony	0.55	MG_KG	U	1.31	0.9	47	3.1						0.08	0.88	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Arsenic	2.1	MG_KG		1.432	5.8	3	0.67	Y	Y			Y	0.07	0.88	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Barium	3.5	MG_KG		16.68	580	22000	1500	Y					0.03	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Beryllium	0.13	MG_KG	J	0.195	63	230	16	Y					0.008	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Cadmium	0.17	MG_KG	J	0.53	3	98	7	Y					0.009	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Calcium	20400	MG_KG		9580				Y	Y				1.96	11	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Chromium	7.5	MG_KG		12.22	3.8	6.3	0.3	Y					0.03	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Cobalt	0.4	MG_KG	J	0.606	0.9	35	2.3	Y					0.03	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Copper	30.9	MG_KG		1.594	700	4700	310	Y	Y				0.17	2.8	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	HMX	58	UG_KG	U			5700000	380000						10	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Iron	2330	MG_KG		3120	150	82000	5500	Y					1.56	11	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Lead	8.6	MG_KG		6.14	270	800	400	Y	Y				0.1	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Magnesium	1380	MG_KG		1412				Y					0.75	11	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Manganese	24.5	MG_KG		27.6	65	2600	180	Y					0.18	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Mercury	0.02	MG_KG	U	0.0764	1	35	2.3						0.006	0.038	05/09/13	METAL	7471A	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Nickel	1.2	MG_KG		1.77	130	2200	150	Y					0.05	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Nitrobenzene	58	UG_KG	U			22000	5100						26	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Nitroglycerin	460	UG_KG	U			8200	620						140	930	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Perchlorate	1.21	UG_KG	U			82000	5500						1.21	2.42	05/09/13	EXPLO	6850	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	PETN	460	UG_KG	U			160000	12000						120	930	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Potassium	387	MG_KG		592				Y					3.19	110	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	RDX	58	UG_KG	U			28000	6000						7.9	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Selenium	0.77	MG_KG	U	1.59	1.5	580	39						0.19	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Silver	0.44	MG_KG	U	0.354	3.4	580	39						0.03	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Sodium	3600	MG_KG		736				Y					1.62	110	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Tetryl	58	UG_KG	U			160000	12000						6.3	120	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Thallium	0.55	MG_KG	U		0.28	1.2	0.078						0.09	1.6	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Vanadium	5.3	MG_KG		6.38	6	580	39	Y					0.04	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC03-13B	N	Zinc	6.4	MG_KG	J	11.7	1200	35000	2300	Y					0.18	2.2	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	1,3,5-Trinitrobenzene	53	UG_KG	U			3200000	220000						7.1	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	1,3-Dinitrobenzene	53	UG_KG	U			8200	620						6.6	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	2,4,6-Trinitrotoluene	53	UG_KG	U			52000	3600						7.1	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	2,4-Dinitrotoluene	53	UG_KG	U			3400	780						16	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	2,6-Dinitrotoluene	53	UG_KG	U			3400	780						28	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	2-Amino-4,6-dinitrotoluene	53	UG_KG	U			230000	15000						22	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	2-Nitrotoluene	53	UG_KG	U			15000	3200						13	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	3-Nitrotoluene	53	UG_KG	U			8200	620						8.4	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	4-Amino-2,6-dinitrotoluene	53	UG_KG	U			230000	15000						18	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	4-Nitrotoluene	53	UG_KG	U			140000	25000						28	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Aluminum	783	MG_KG		2040		100000	7700	Y					0.78	33	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Antimony	0.55	MG_KG	U	1.31	0.9	47	3.1						0.08	0.88	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Arsenic	1.6	MG_KG		1.432	5.8	3	0.67	Y	Y			Y	0.07	0.88	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Barium	2.6	MG_KG		16.68	580	22000	1500	Y					0.03	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Beryllium	0.09	MG_KG	J	0.195	63	230	16	Y					0.008	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Cadmium	0.03	MG_KG	J	0.53	3	98	7	Y					0.009	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Calcium	18100	MG_KG		9580				Y	Y				1.96	11	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Chromium	5.5	MG_KG		12.22	3.8	6.3	0.3	Y					0.03	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Cobalt	0.22	MG_KG	J	0.606	0.9	35	2.3	Y					0.03	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Copper	11	MG_KG		1.594	700	4700	310	Y	Y				0.17	2.8	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	HMX	53	UG_KG	U			5700000	380000						9.1	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Iron	1370	MG_KG		3120	150	82000	5500	Y					1.56	11	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Lead	4.2	MG_KG		6.14	270	800	400	Y					0.1	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Magnesium	1060	MG_KG		1412				Y					0.75	11	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Manganese	13.3	MG_KG		27.6	65	2600	180	Y					0.18	0.55	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Mercury	0.02	MG_KG	U	0.0764	1	35	2.3						0.006	0.039	05/09/13	METAL	7471A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Nickel	0.64	MG_KG	J	1.77	130	2200	150	Y					0.05	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Nitrobenzene	53	UG_KG	U			22000	5100						23	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Nitroglycerin	420	UG_KG	U			8200	620						130	850	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Perchlorate	1.19	UG_KG	U			82000	5500						1.19	2.39	05/09/13	EXPLO	6850	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	PETN	420	UG_KG	U			160000	12000						110	850	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Potassium	249	MG_KG		592				Y					3.2	110	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	RDX	53	UG_KG	U			28000	6000						7.2	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Selenium	0.77	MG_KG	U	1.59	1.5	580	39						0.19	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Silver	0.44	MG_KG	U	0.354	3.4	580	39						0.03	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Sodium	3300	MG_KG		736				Y					1.63	110	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Tetryl	53	UG_KG	U			160000	12000						5.7	100	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Thallium	0.55	MG_KG	U		0.28	1.2	0.078						0.09	1.6	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Vanadium	3	MG_KG		6.38	6	580	39	Y					0.04	1.1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Single Item/Single Detonation	Inside of Crater	SDZ-SS-IC04-13B	N	Zinc	4.5	MG_KG	J	11.7	1200	35000	2300	Y					0.19	2.2	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	1,3,5-Trinitrobenzene	55	UG_KG	U			3200000	220000						7.4	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	1,3-Dinitrobenzene	55	UG_KG	U			8200	620						6.9	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	2,4,6-Trinitrotoluene	55	UG_KG	U			52000	3600						7.4	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	2,4-Dinitrotoluene	55	UG_KG	U			3400	780						17	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	2,6-Dinitrotoluene	55	UG_KG	U			3400	780						30	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	2-Amino-4,6-dinitrotoluene	55	UG_KG	U			230000	15000						23	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	2-Nitrotoluene	55	UG_KG	U			15000	3200						13	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	3-Nitrotoluene	55	UG_KG	U			8200	620						8.7	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	4-Amino-2,6-dinitrotoluene	55	UG_KG	U			230000	15000						19	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	4-Nitrotoluene	55	UG_KG	U			140000	25000						30	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Aluminum	1510	MG_KG	J	2040		100000	7700	Y					0.63	27	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Antimony	0.45	MG_KG	U	1.31	0.9	47	3.1						0.06	0.71	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Arsenic	2.2	MG_KG		1.432	5.8	3	0.67	Y	Y			Y	0.06	0.71	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Barium	3.2	MG_KG		16.68	580	22000	1500	Y					0.02	0.45	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Beryllium	0.13	MG_KG	J	0.195	63	230	16	Y					0.006	0.45	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Cadmium	0.03	MG_KG	J	0.53	3	98	7	Y					0.007	0.45	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Calcium	21000	MG_KG		9580				Y	Y				1.59	8.9	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Chromium	7.4	MG_KG		12.22	3.8	6.3	0.3	Y					0.02	0.89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Cobalt	0.39	MG_KG	J	0.606	0.9	35	2.3	Y					0.03	0.89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Copper	5.1	MG_KG		1.594	700	4700	310	Y	Y				0.14	2.2	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	HMX	55	UG_KG	U			5700000	380000						9.5	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Iron	2160	MG_KG		3120	150	82000	5500	Y					1.27	8.9	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Lead	2.8	MG_KG		6.14	270	800	400	Y					0.08	0.45	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Magnesium	1320	MG_KG		1412				Y					0.61	8.9	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Manganese	23.4	MG_KG		27.6	65	2600	180	Y					0.14	0.45	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Mercury	0.02	MG_KG	U	0.0764	1	35	2.3						0.006	0.039	05/09/13	METAL	7471A	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Nickel	1	MG_KG		1.77	130	2200	150	Y					0.04	0.89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Nitrobenzene	55	UG_KG	U			22000	5100						24	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Nitroglycerin	440	UG_KG	U			8200	620						140	880	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Perchlorate	1.22	UG_KG	U			82000	5500						1.22	2.45	05/09/13	EXPLO	6850	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	PETN	440	UG_KG	U			160000	12000						120	880	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Potassium	353	MG_KG		592				Y					2.59	89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	RDX	55	UG_KG	U			28000	6000						7.5	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Selenium	0.62	MG_KG	U	1.59	1.5	580	39						0.15	0.89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Silver	0.36	MG_KG	U	0.354	3.4	580	39						0.02	0.89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Sodium	2830	MG_KG		736				Y					1.32	89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Tetryl	55	UG_KG	U			160000	12000						6	110	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Thallium	0.45	MG_KG	U		0.28	1.2	0.078						0.08	1.3	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Vanadium	5.2	MG_KG		6.38	6	580	39	Y					0.03	0.89	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01-13B	N	Zinc	6.1	MG_KG	J	11.7	1200	35000	2300	Y					0.15	1.8	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	1,3,5-Trinitrobenzene	63	UG_KG	U			3200000	220000						8.5	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	1,3-Dinitrobenzene	63	UG_KG	U			8200	620						7.9	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	2,4,6-Trinitrotoluene	63	UG_KG	U			52000	3600						8.5	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	2,4-Dinitrotoluene	63	UG_KG	U			3400	780						19	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	2,6-Dinitrotoluene	63	UG_KG	U			3400	780						34	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	2-Amino-4,6-dinitrotoluene	63	UG_KG	U			230000	15000						27	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	2-Nitrotoluene	63	UG_KG	U			15000	3200						15	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	3-Nitrotoluene	63	UG_KG	U			8200	620						10	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	4-Amino-2,6-dinitrotoluene	63	UG_KG	U			230000	15000						22	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	4-Nitrotoluene	63	UG_KG	U			140000	25000						34	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Aluminum	2210	MG_KG	J	2040		100000	7700	Y					0.73	31	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Antimony	0.52	MG_KG	U	1.31	0.9	47	3.1						0.07	0.82	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Arsenic	2.7	MG_KG		1.432	5.8	3	0.67	Y	Y			Y	0.07	0.82	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Barium	4.4	MG_KG		16.68	580	22000	1500	Y					0.03	0.52	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Beryllium	0.14	MG_KG	J	0.195	63	230	16	Y					0.007	0.52	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Cadmium	0.03	MG_KG	J	0.53	3	98	7	Y					0.008	0.52	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Calcium	20600	MG_KG		9580				Y	Y				1.84	10	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Chromium	8.7	MG_KG		12.22	3.8	6.3	0.3	Y					0.03	1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Cobalt	0.49	MG_KG	J	0.606	0.9	35	2.3	Y					0.03	1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Copper	5.3	MG_KG		1.594	700	4700	310	Y	Y				0.16	2.6	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	HMX	63	UG_KG	U			5700000	380000						11	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Iron	2640	MG_KG		3120	150	82000	5500	Y					1.46	10	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Lead	3.3	MG_KG		6.14	270	800	400	Y					0.09	0.52	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Magnesium	1500	MG_KG		1412				Y	Y				0.7	10	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Manganese	27.4	MG_KG		27.6	65	2600	180	Y					0.17	0.52	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Mercury	0.021	MG_KG	U	0.0764	1	35	2.3						0.006	0.041	05/09/13	METAL	7471A	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Nickel	1.4	MG_KG		1.77	130	2200	150	Y					0.05	1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Nitrobenzene	63	UG_KG	U			22000	5100						28	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Nitroglycerin	510	UG_KG	U			8200	620						160	1000	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Perchlorate	1.24	UG_KG	U			82000	5500						1.24	2.47	05/09/13	EXPLO	6850	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	PETN	510	UG_KG	U			160000	12000						140	1000	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Potassium	498	MG_KG		592				Y					2.99	100	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	RDX	63	UG_KG	U			28000	6000						8.6	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Selenium	0.72	MG_KG	U	1.59	1.5	580	39						0.18	1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Silver	0.41	MG_KG	U	0.354	3.4	580	39						0.03	1	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Sodium	3340	MG_KG		736				Y					1.52	100	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Tetryl	63	UG_KG	U			160000	12000						6.9	130	05/09/13	EXPLO	8330	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Thallium	0.52	MG_KG	U		0.28	1.2	0.078						0.09	1.5	05/09/13	METAL	6010C	SS
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Vanadium	7	MG_KG		6.38	6	580	39	Y					0.04	1	05/09/13	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
Off-Base SDZs	ESI	Multiple Items/Multiple Detonations	Outside of Crater	SDZ-SS-OC01D-13B	FD	Zinc	7.1	MG_KG	J	11.7	1200	35000	2300	Y					0.17	2.1	05/09/13	METAL	6010C	SS
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Aluminum	1380	MG_KG	J	12800		100000	7700	Y					3.75	19.7	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Antimony	1.97	MG_KG	U	1.87	0.9	47	3.1						0.375	3.94	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Arsenic	1.97	MG_KG	U	1.17	5.8	3	0.67						0.513	3.94	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Barium	9.87	MG_KG		36.7	580	22000	1500	Y					0.0217	0.986	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Beryllium	0.0128	MG_KG	J	0.195	63	230	16	Y					0.012	0.0986	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Cadmium	0.0986	MG_KG	U	0.2	3	98	7						0.0276	0.197	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Calcium	218	MG_KG		8470				Y					3.75	49.3	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Chromium	0.784	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.0572	0.986	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Cobalt	0.493	MG_KG	U	0.414	0.9	35	2.3						0.0454	0.986	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Copper	0.892	MG_KG	J	17.1	700	4700	310	Y					0.15	0.986	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	HMX	300	UG_KG	U			5700000	380000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Iron	397	MG_KG	J	7210	150	82000	5500	Y					2.96	19.7	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Lead	2.56	MG_KG		27.5	270	800	400	Y					0.197	1.97	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Magnesium	64.5	MG_KG		904				Y					3.55	49.3	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Manganese	15.2	MG_KG		37	65	2600	180	Y					0.0513	1.97	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Mercury	0.00406	MG_KG	J	0.161	1	35	2.3	Y					0.00243	0.0207	10/18/11	METAL	7471B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Nickel	0.493	MG_KG	U	3.11	130	2200	150						0.0394	0.986	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Perchlorate	5.51	UG_KG	J			82000	5500	Y					0.665	2.66	10/18/11	EXPLO	6850M	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	PETN	500	UG_KG	U			160000	12000						250	2000	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Potassium	54.7	MG_KG	J	359				Y					8.08	98.6	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	RDX	300	UG_KG	U			28000	6000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Selenium	1.97	MG_KG	U	1.59	1.5	580	39						0.611	3.94	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Silver	0.493	MG_KG	U	0.354	3.4	580	39						0.116	0.986	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Sodium	12.3	MG_KG	U	250									5.32	49.3	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Tetryl	300	UG_KG	U			160000	12000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Thallium	0.986	MG_KG	U		0.28	1.2	0.078						0.276	1.97	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Vanadium	1.18	MG_KG	J	17.6	6	580	39	Y					0.0907	1.97	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192D-IC-11D	FD	Zinc	4.2	MG_KG	J	28.6	1200	35000	2300	Y					0.375	1.97	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Aluminum	1290	MG_KG	J	12800		100000	7700	Y					2.78	14.6	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Antimony	1.46	MG_KG	U	1.87	0.9	47	3.1						0.278	2.92	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Arsenic	1.46	MG_KG	U	1.17	5.8	3	0.67						0.38	2.92	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Barium	10	MG_KG		36.7	580	22000	1500	Y					0.0161	0.731	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Beryllium	0.0136	MG_KG	J	0.195	63	230	16	Y					0.00892	0.0731	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Cadmium	0.0731	MG_KG	U	0.2	3	98	7						0.0205	0.146	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Calcium	193	MG_KG		8470				Y					2.78	36.5	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Chromium	0.775	MG_KG		17.4	3.8	6.3	0.3	Y					0.0424	0.731	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Cobalt	0.365	MG_KG	U	0.414	0.9	35	2.3						0.0336	0.731	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Copper	1.13	MG_KG		17.1	700	4700	310	Y					0.111	0.731	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	HMX	300	UG_KG	U			5700000	380000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Iron	408	MG_KG	J	7210	150	82000	5500	Y					2.19	14.6	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Lead	2.69	MG_KG		27.5	270	800	400	Y					0.146	1.46	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Magnesium	60.3	MG_KG		904				Y					2.63	36.5	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Manganese	15	MG_KG		37	65	2600	180	Y					0.038	1.46	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Mercury	0.00251	MG_KG	J	0.161	1	35	2.3	Y					0.00237	0.0202	10/18/11	METAL	7471B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Nickel	0.432	MG_KG	J	3.11	130	2200	150	Y					0.0292	0.731	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Perchlorate	1.09	UG_KG	J			82000	5500	Y					0.687	2.75	10/18/11	EXPLO	6850M	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	2000	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Potassium	57.1	MG_KG	J	359				Y					5.99	73.1	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	RDX	300	UG_KG	U			28000	6000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Selenium	1.46	MG_KG	U	1.59	1.5	580	39						0.453	2.92	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Silver	0.365	MG_KG	U	0.354	3.4	580	39						0.0862	0.731	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Sodium	10.5	MG_KG	J	250				Y					3.95	36.5	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Tetryl	300	UG_KG	U			160000	12000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Thallium	0.731	MG_KG	U		0.28	1.2	0.078						0.205	1.46	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Vanadium	1.16	MG_KG	J	17.6	6	580	39	Y					0.0672	1.46	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Inside of Crater	MR02-SS192-IC-11D	N	Zinc	5.85	MG_KG	J	28.6	1200	35000	2300	Y					0.278	1.46	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Aluminum	1240	MG_KG	J	12800		100000	7700	Y					2.6	13.7	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Antimony	1.37	MG_KG	U	1.87	0.9	47	3.1						0.26	2.74	10/18/11	METAL	6010C	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Arsenic	1.37	MG_KG	U	1.17	5.8	3	0.67						0.356	2.74	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Barium	15.1	MG_KG		36.7	580	22000	1500	Y					0.0151	0.684	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Beryllium	0.0277	MG_KG	J	0.195	63	230	16	Y					0.00835	0.0684	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Cadmium	0.0684	MG_KG	U	0.2	3	98	7						0.0192	0.137	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Calcium	672	MG_KG		8470				Y					2.6	34.2	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Chromium	0.794	MG_KG		17.4	3.8	6.3	0.3	Y					0.0397	0.684	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Cobalt	0.342	MG_KG	U	0.414	0.9	35	2.3						0.0315	0.684	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Copper	0.713	MG_KG		17.1	700	4700	310	Y					0.104	0.684	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	HMX	300	UG_KG	U			5700000	380000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Iron	469	MG_KG	J	7210	150	82000	5500	Y					2.05	13.7	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Lead	3.85	MG_KG		27.5	270	800	400	Y					0.137	1.37	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Magnesium	109	MG_KG		904				Y					2.46	34.2	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Manganese	44.4	MG_KG		37	65	2600	180	Y	Y				0.0356	1.37	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Mercury	0.0115	MG_KG	J	0.161	1	35	2.3	Y					0.00208	0.0177	10/18/11	METAL	7471B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Nickel	0.482	MG_KG	J	3.11	130	2200	150	Y					0.0274	0.684	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	10/18/11	SVOA	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Perchlorate	1.07	UG_KG	U			82000	5500						0.535	2.14	10/18/11	EXPLO	6850M	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	PETN	500	UG_KG	U			160000	12000						250	2000	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Potassium	71.5	MG_KG		359				Y					5.61	68.4	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	RDX	300	UG_KG	U			28000	6000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Selenium	1.37	MG_KG	U	1.59	1.5	580	39						0.424	2.74	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Silver	0.342	MG_KG	U	0.354	3.4	580	39						0.0808	0.684	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Sodium	10	MG_KG	J	250				Y					3.7	34.2	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Tetryl	300	UG_KG	U			160000	12000						150	500	10/18/11	EXPLO	8330B	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Thallium	0.684	MG_KG	U		0.28	1.2	0.078						0.192	1.37	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Vanadium	1.53	MG_KG		17.6	6	580	39	Y					0.063	1.37	10/18/11	METAL	6010C	SO
UXO-02	ESI	Single Item/Single Detonation	Outside of Crater	MR02-SS192-OC-11D	N	Zinc	3.85	MG_KG		28.6	1200	35000	2300	Y					0.26	1.37	10/18/11	METAL	6010C	SO
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	1,3,5-Trinitrobenzene	100	UG_KG	U			3200000	220000						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	1,3-Dinitrobenzene	100	UG_KG	U			8200	620						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	2,4,6-Trinitrotoluene	100	UG_KG	U			52000	3600						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	2,4-Dinitrotoluene	100	UG_KG	U		1.6	3400	780						33	100	10/23/09	SVOA	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	2,6-Dinitrotoluene	100	UG_KG	U			3400	780						33	100	10/23/09	SVOA	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	2-Amino-4,6-dinitrotoluene	100	UG_KG	U			230000	15000						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	2-Nitrotoluene	100	UG_KG	U			15000	3200						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	3-Nitrotoluene	100	UG_KG	U			8200	620						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	4-Amino-2,6-dinitrotoluene	100	UG_KG	U			230000	15000						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	4-Nitrotoluene	100	UG_KG	U			140000	25000						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Aluminum	6370	MG_KG		12800		100000	7700	Y					2.82	11.3	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Antimony	0.845	MG_KG	U	1.87	0.9	47	3.1						0.282	0.845	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Arsenic	0.711	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Barium	98.4	MG_KG		36.7	580	22000	1500	Y	Y				0.282	2.25	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Beryllium	0.282	MG_KG	U	0.195	63	230	16						0.0564	0.282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Cadmium	0.282	MG_KG	U	0.2	3	98	7						0.0564	0.282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Calcium	282	MG_KG	U	8470									56.4	282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Chromium	5.62	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Cobalt	0.705	MG_KG	U	0.414	0.9	35	2.3						0.282	0.705	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Copper	8.49	MG_KG		17.1	700	4700	310	Y					0.282	0.564	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	HMX	100	UG_KG	U			5700000	380000						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Iron	2400	MG_KG		7210	150	82000	5500	Y					1.69	5.64	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Lead	3.94	MG_KG		27.5	270	800	400	Y					0.0845	0.169	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Magnesium	176	MG_KG	J	904				Y					56.4	282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Manganese	2.9	MG_KG		37	65	2600	180	Y					0.169	0.845	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Mercury	0.0533	MG_KG		0.161	1	35	2.3	Y					0.0156	0.0396	10/23/09	METAL	7471A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Nickel	2.61	MG_KG	J	3.11	130	2200	150	Y					0.282	0.564	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Nitrobenzene	100	UG_KG	U			22000	5100						33	100	10/23/09	SVOA	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Nitroglycerin	500	UG_KG	U			8200	620						170	500	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Perchlorate	2.32	UG_KG	U			82000	5500						0.697	2.32	10/23/09	EXPLO	6850	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	PETN	500	UG_KG	U			160000	12000						170	500	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Potassium	141	MG_KG	J	359				Y					56.4	282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	RDX	100	UG_KG	U			28000	6000						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Selenium	0.23	MG_KG	J	1.59	1.5	580	39	Y					0.169	0.282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Silver	0.282	MG_KG	U	0.354	3.4	580	39						0.113	0.282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Sodium	282	MG_KG	U	250									56.4	282	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Tetryl	100	UG_KG	U			160000	12000						33	100	10/23/09	EXPLO	8330A	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Thallium	0.451	MG_KG	U		0.28	1.2	0.078						0.225	0.451	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Vanadium	8.01	MG_KG		17.6	6	580	39	Y					0.282	0.705	10/23/09	METAL	6010B	SS
UXO-03	PA/SI	Single Item/Single Detonation	Inside of Crater	UXO03-SS01-09D	N	Zinc	2.22	MG_KG		28.6	1200	35000	2300	Y					0.282	1.13	10/23/09	METAL	6010B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	2,4-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Aluminum	3620	MG_KG		12800		100000	7700	Y					4.38	27.4	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Antimony	1.37	MG_KG	UJ	1.87	0.9	47	3.1						0.466	2.74	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Arsenic	0.425	MG_KG	J	1.17	5.8	3	0.67	Y					0.283	2.74	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Barium	5.96	MG_KG		36.7	580	22000	1500	Y					0.0136	0.685	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Beryllium	0.0474	MG_KG	J	0.195	63	230	16	Y					0.00595	0.0685	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Cadmium	0.259	MG_KG		0.2	3	98	7	Y	Y				0.0219	0.137	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Calcium	32.3	MG_KG	J	8470				Y					1.92	34.2	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Chromium	2.39	MG_KG		17.4	3.8	6.3	0.3	Y					0.0521	0.685	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Cobalt	0.0858	MG_KG	J	0.414	0.9	35	2.3	Y					0.026	0.685	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Copper	2.07	MG_KG		17.1	700	4700	310	Y					0.089	0.685	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	HMX	300	UG_KG	U			5700000	380000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Iron	1440	MG_KG		7210	150	82000	5500	Y					2.19	13.7	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Lead	4.2	MG_KG		27.5	270	800	400	Y					0.11	2.74	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Magnesium	38.9	MG_KG		904				Y					3.45	34.2	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Manganese	6.33	MG_KG		37	65	2600	180	Y					0.0342	1.37	12/19/12	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Mercury	0.027	MG_KG	U	0.161	1	35	2.3						0.00607	0.0539	12/19/12	METAL	7471B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Nickel	1.18	MG_KG		3.11	130	2200	150	Y					0.037	0.685	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Perchlorate	1.09	UG_KG	U			82000	5500						0.547	2.19	12/19/12	EXPLO	6850M	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	PETN	500	UG_KG	U			160000	12000						250	2000	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Potassium	37.3	MG_KG	J	359				Y					8.36	68.5	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	RDX	300	UG_KG	U			28000	6000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Selenium	1.37	MG_KG	U	1.59	1.5	580	39						0.452	2.74	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Silver	0.342	MG_KG	U	0.354	3.4	580	39						0.0795	0.685	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Sodium	17.1	MG_KG	U	250									4.66	34.2	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Tetryl	300	UG_KG	U			160000	12000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Thallium	1.37	MG_KG	U		0.28	1.2	0.078						0.411	2.74	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Vanadium	3.39	MG_KG		17.6	6	580	39	Y					0.0699	1.37	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89D-IC-12D	FD	Zinc	21.3	MG_KG		28.6	1200	35000	2300	Y					0.205	1.37	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	2,4-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Aluminum	1260	MG_KG		12800		100000	7700	Y					3.55	22.2	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Antimony	1.11	MG_KG	UJ	1.87	0.9	47	3.1						0.377	2.22	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Arsenic	0.263	MG_KG	J	1.17	5.8	3	0.67	Y					0.229	2.22	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Barium	3.37	MG_KG		36.7	580	22000	1500	Y					0.011	0.555	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Beryllium	0.0195	MG_KG	J	0.195	63	230	16	Y					0.00482	0.0555	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Cadmium	0.12	MG_KG		0.2	3	98	7	Y					0.0178	0.111	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Calcium	24.4	MG_KG	J	8470				Y					1.55	27.7	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Chromium	1.07	MG_KG		17.4	3.8	6.3	0.3	Y					0.0422	0.555	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Cobalt	0.055	MG_KG	J	0.414	0.9	35	2.3	Y					0.0211	0.555	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Copper	1.28	MG_KG		17.1	700	4700	310	Y					0.0721	0.555	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	HMX	300	UG_KG	U			5700000	380000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Iron	702	MG_KG		7210	150	82000	5500	Y					1.78	11.1	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Lead	3.84	MG_KG		27.5	270	800	400	Y					0.0888	2.22	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Magnesium	20	MG_KG	J	904				Y					2.79	27.7	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Manganese	5.74	MG_KG		37	65	2600	180	Y					0.0277	1.11	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Mercury	0.0307	MG_KG	U	0.161	1	35	2.3						0.00692	0.0615	12/19/12	METAL	7471B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Nickel	0.453	MG_KG	J	3.11	130	2200	150	Y					0.03	0.555	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Perchlorate	1.12	UG_KG	U			82000	5500						0.559	2.23	12/19/12	EXPLO	6850M	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	PETN	500	UG_KG	U			160000	12000						250	2000	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Potassium	26.6	MG_KG	J	359				Y					6.77	55.5	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	RDX	300	UG_KG	U			28000	6000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Selenium	1.11	MG_KG	U	1.59	1.5	580	39						0.366	2.22	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Silver	0.277	MG_KG	U	0.354	3.4	580	39						0.0644	0.555	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Sodium	6.94	MG_KG	J	250				Y					3.77	27.7	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Tetryl	300	UG_KG	U			160000	12000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Thallium	1.11	MG_KG	U		0.28	1.2	0.078						0.333	2.22	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Vanadium	1.71	MG_KG		17.6	6	580	39	Y					0.0566	1.11	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Inside of Crater	MR06-SS89-IC-12D	N	Zinc	17	MG_KG		28.6	1200	35000	2300	Y					0.166	1.11	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	2,4-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	2,6-Dinitrotoluene	300	UG_KG	UJ			3400	780						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Aluminum	2240	MG_KG		12800		100000	7700	Y					4.54	28.4	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Antimony	1.42	MG_KG	UJ	1.87	0.9	47	3.1						0.482	2.84	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Arsenic	0.298	MG_KG	J	1.17	5.8	3	0.67	Y					0.293	2.84	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Barium	5.7	MG_KG		36.7	580	22000	1500	Y					0.014	0.709	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Beryllium	0.0263	MG_KG	J	0.195	63	230	16	Y					0.00615	0.0709	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Cadmium	0.0704	MG_KG	J	0.2	3	98	7	Y					0.0227	0.142	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Calcium	27	MG_KG	J	8470				Y					1.98	35.4	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Chromium	1.63	MG_KG		17.4	3.8	6.3	0.3	Y					0.0539	0.709	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Cobalt	0.0624	MG_KG	J	0.414	0.9	35	2.3	Y					0.0269	0.709	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Copper	1.96	MG_KG		17.1	700	4700	310	Y					0.0921	0.709	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	HMX	300	UG_KG	U			5700000	380000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Iron	1150	MG_KG		7210	150	82000	5500	Y					2.27	14.2	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Lead	2.88	MG_KG		27.5	270	800	400	Y					0.113	2.84	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Magnesium	36.5	MG_KG		904				Y					3.57	35.4	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Manganese	5.98	MG_KG		37	65	2600	180	Y					0.0354	1.42	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Mercury	0.00832	MG_KG	J	0.161	1	35	2.3	Y					0.00635	0.0565	12/19/12	METAL	7471B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Nickel	0.674	MG_KG	J	3.11	130	2200	150	Y					0.0383	0.709	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Perchlorate	1.16	UG_KG	U			82000	5500						0.579	2.32	12/19/12	EXPLO	6850M	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	PETN	500	UG_KG	U			160000	12000						250	2000	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Potassium	38.7	MG_KG	J	359				Y					8.65	70.9	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	RDX	300	UG_KG	U			28000	6000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Selenium	1.42	MG_KG	U	1.59	1.5	580	39						0.468	2.84	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Silver	0.354	MG_KG	U	0.354	3.4	580	39						0.0822	0.709	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Sodium	17.7	MG_KG	U	250									4.82	35.4	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Tetryl	300	UG_KG	U			160000	12000						150	500	12/19/12	EXPLO	8330B	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Thallium	1.42	MG_KG	U		0.28	1.2	0.078						0.425	2.84	12/19/12	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Vanadium	2.87	MG_KG		17.6	6	580	39	Y					0.0723	1.42	12/19/12	METAL	6010C	SS
UXO-06	RI	Multiple Items/Multiple Detonations	Outside of Crater	MR06-SS89-OC-12D	N	Zinc	8.39	MG_KG		28.6	1200	35000	2300	Y					0.213	1.42	12/19/12	METAL	6010C	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	2,4,6-Trinitrotoluene	138	UG_KG	UJ			52000	3600						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	HMX	138	UG_KG	U			5700000	380000						103	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	Perchlorate	2.35	UG_KG	U			82000	5500						0.704	5.87	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	PETN	345	UG_KG	U			160000	12000						172	690	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	RDX	341	UG_KG				28000	6000	Y					69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS01-11C	N	Tetryl	138	UG_KG	U			160000	12000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	2,4,6-Trinitrotoluene	143	UG_KG	UJ			52000	3600						107	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	HMX	799	UG_KG	J			5700000	380000	Y					71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	Perchlorate	2.38	UG_KG	U			82000	5500						0.715	5.96	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	PETN	357	UG_KG	U			160000	12000						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	RDX	340	UG_KG				28000	6000	Y					71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02-11C	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	2,4,6-Trinitrotoluene	182	UG_KG	UJ			52000	3600						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	HMX	182	UG_KG	UJ			5700000	380000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	Perchlorate	2.36	UG_KG	U			82000	5500						0.707	5.89	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	PETN	455	UG_KG	U			160000	12000						227	909	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	RDX	256	UG_KG	J			28000	6000	Y					90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS02D-11C	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	2,4,6-Trinitrotoluene	138	UG_KG	UJ			52000	3600						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	HMX	158	UG_KG	J			5700000	380000	Y					69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	Perchlorate	2.36	UG_KG	U			82000	5500						0.708	5.9	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	PETN	345	UG_KG	U			160000	12000						172	690	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	RDX	217	UG_KG	J			28000	6000	Y					69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU05-SS03-11C	N	Tetryl	138	UG_KG	U			160000	12000						69	276	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	UJ			52000	3600						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	Perchlorate	2.39	UG_KG	U			82000	5500						0.716	5.97	09/23/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	RDX	222	UG_KG	J			28000	6000	Y					90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS01-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	2,4,6-Trinitrotoluene	143	UG_KG	UJ			52000	3600						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	Perchlorate	1.73	UG_KG	J			82000	5500	Y					0.692	5.76	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	PETN	357	UG_KG	U			160000	12000						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	RDX	438	UG_KG	J			28000	6000	Y					71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS02-11C	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	2,4,6-Trinitrotoluene	148	UG_KG	UJ			52000	3600						111	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	HMX	87.3	UG_KG	J			5700000	380000	Y					74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	Perchlorate	2.36	UG_KG	U			82000	5500						0.709	5.91	09/23/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	PETN	370	UG_KG	U			160000	12000						185	741	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	RDX	440	UG_KG				28000	6000	Y					74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU06-SS03-11C	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	2,4,6-Trinitrotoluene	190	UG_KG	UJ			52000	3600						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	Perchlorate	2.4	UG_KG	U			82000	5500						0.72	6	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	PETN	476	UG_KG	U			160000	12000						238	952	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	RDX	192	UG_KG	J			28000	6000	Y					95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS01-11C	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	2,4,6-Trinitrotoluene	143	UG_KG	UJ			52000	3600						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	Perchlorate	2.34	UG_KG	U			82000	5500						0.702	5.85	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	PETN	357	UG_KG	U			160000	12000						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	RDX	140	UG_KG	J			28000	6000	Y					71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS02-11C	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	2,4,6-Trinitrotoluene	208	UG_KG	UJ			52000	3600						208	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	Perchlorate	2.45	UG_KG	U			82000	5500						0.735	6.12	09/23/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	PETN	417	UG_KG	U			160000	12000						208	833	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	RDX	278	UG_KG	J			28000	6000	Y					83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU07-SS03-11C	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	2,4,6-Trinitrotoluene	143	UG_KG	UJ			52000	3600						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	Perchlorate	2.43	UG_KG	U			82000	5500						0.73	6.08	09/22/11	EXPLO	6850	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	PETN	357	UG_KG	U			160000	12000						179	714	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	RDX	351	UG_KG				28000	6000	Y					71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS01-11C	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	2,4,6-Trinitrotoluene	138	UG_KG	UJ			52000	3600						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	HMX	138	UG_KG	U			5700000	380000						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	09/23/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	Perchlorate	2.37	UG_KG	U			82000	5500						0.71	5.92	09/23/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	PETN	345	UG_KG	U			160000	12000						172	690	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	RDX	111	UG_KG	J			28000	6000	Y					69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS02-11C	N	Tetryl	138	UG_KG	U			160000	12000						69	276	09/23/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	2,4,6-Trinitrotoluene	200	UG_KG	UJ			52000	3600						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	HMX	200	UG_KG	U			5700000	380000						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	Perchlorate	2.43	UG_KG	U			82000	5500						0.728	6.06	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	PETN	500	UG_KG	U			160000	12000						250	1000	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	RDX	341	UG_KG	J			28000	6000	Y					100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU08-SS03-11C	N	Tetryl	200	UG_KG	U			160000	12000						100	400	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	2,4,6-Trinitrotoluene	143	UG_KG	UJ			52000	3600						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	Perchlorate	2.24	UG_KG	U			82000	5500						0.671	5.6	09/23/11	EXPLO	6850	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	PETN	357	UG_KG	U			160000	12000						179	714	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	RDX	598	UG_KG				28000	6000	Y					71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-11C	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	2,4,6-Trinitrotoluene	182	UG_KG	UJ			52000	3600						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	Perchlorate	2.24	UG_KG	U			82000	5500						0.672	5.6	09/23/11	EXPLO	6850	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	PETN	455	UG_KG	U			160000	12000						227	909	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	RDX	650	UG_KG				28000	6000	Y					90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU09-IS-4-5-D-11C	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	UJ			52000	3600						115	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.688	5.73	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	RDX	466	UG_KG				28000	6000	Y					76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU09-SS-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	UJ			52000	3600						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	09/23/11	SVOA	8330A	SB

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.687	5.72	09/23/11	EXPLO	6850	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	RDX	338	UG_KG				28000	6000	Y					76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU10-IS-4-5-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	UJ			52000	3600						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	Perchlorate	2.24	UG_KG	U			82000	5500						0.672	5.6	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	RDX	594	UG_KG				28000	6000	Y					90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU10-SS-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	2,4,6-Trinitrotoluene	148	UG_KG	UJ			52000	3600						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	Perchlorate	2.12	UG_KG	U			82000	5500						0.636	5.3	09/23/11	EXPLO	6850	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	PETN	370	UG_KG	U			160000	12000						185	741	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	RDX	148	UG_KG	U			28000	6000						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU11-IS-4-5-11C	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	UJ			52000	3600						115	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	HMX	116	UG_KG	J			5700000	380000	Y					76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	Perchlorate	2.54	UG_KG	U			82000	5500						0.762	6.35	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	RDX	674	UG_KG				28000	6000	Y					76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU11-SS-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	2,4,6-Trinitrotoluene	148	UG_KG	UJ			52000	3600						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	09/22/11	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.685	5.71	09/22/11	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	PETN	370	UG_KG	U			160000	12000						185	741	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	RDX	456	UG_KG				28000	6000	Y					74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	Decision Unit	MR06-DU12-11C	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	09/22/11	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	2,4,6-Trinitrotoluene	200	UG_KG	UJ			52000	3600						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	HMX	200	UG_KG	U			5700000	380000						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	09/23/11	SVOA	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	09/23/11	EXPLO	8330A	SB

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	Perchlorate	2.26	UG_KG	U			82000	5500						0.679	5.66	09/23/11	EXPLO	6850	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	PETN	500	UG_KG	U			160000	12000						250	1000	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	RDX	455	UG_KG				28000	6000	Y					100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Multiple Items/Multiple Detonations	subsurface	MR06-DU12-IS-4-5-11C	N	Tetryl	200	UG_KG	U			160000	12000						100	400	09/23/11	EXPLO	8330A	SB
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	2,4,6-Trinitrotoluene	76	UG_KG	J			52000	3600	Y					62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						62	190	12/15/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						62	190	12/15/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	2-Nitrotoluene	120	UG_KG	J			15000	3200	Y					62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Aluminum	5340	MG_KG		12800		100000	7700	Y					3.05	12.2	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Antimony	0.916	MG_KG	UJ	1.87	0.9	47	3.1						0.305	0.916	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Arsenic	0.593	MG_KG		1.17	5.8	3	0.67	Y					0.183	0.305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Barium	10.9	MG_KG	J	36.7	580	22000	1500	Y					0.305	2.44	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Beryllium	0.082	MG_KG	J	0.195	63	230	16	Y					0.0611	0.305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Cadmium	0.0742	MG_KG	J	0.2	3	98	7	Y					0.0611	0.305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Calcium	1590	MG_KG	J	8470				Y					61.1	305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Chromium	6.18	MG_KG		17.4	3.8	6.3	0.3	Y					0.122	0.305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Cobalt	0.433	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.305	0.763	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Copper	1.99	MG_KG		17.1	700	4700	310	Y					0.305	0.611	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	HMX	190	UG_KG	U			5700000	380000						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Iron	1970	MG_KG		7210	150	82000	5500	Y					1.83	6.11	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Lead	12.5	MG_KG		27.5	270	800	400	Y					0.0916	0.183	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Magnesium	197	MG_KG	J	904				Y					61.1	305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Manganese	7.72	MG_KG	J	37	65	2600	180	Y					0.183	0.916	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Mercury	0.0338	MG_KG	U	0.161	1	35	2.3						0.0133	0.0338	12/15/09	METAL	7471A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Nickel	1.54	MG_KG		3.11	130	2200	150	Y					0.305	0.611	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Nitrobenzene	190	UG_KG	U			22000	5100						62	190	12/15/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Nitroglycerin	640	UG_KG	U			8200	620						210	640	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Perchlorate	2.46	UG_KG	U			82000	5500						0.737	2.46	12/15/09	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	PETN	640	UG_KG	U			160000	12000						210	640	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Potassium	273	MG_KG	J	359				Y					61.1	305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	RDX	150	UG_KG	J			28000	6000	Y					62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Selenium	0.305	MG_KG	U	1.59	1.5	580	39						0.183	0.305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Silver	0.305	MG_KG	U	0.354	3.4	580	39						0.0611	0.305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Sodium	305	MG_KG	U	250									61.1	305	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Tetryl	190	UG_KG	U			160000	12000						62	190	12/15/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Thallium	0.489	MG_KG	U		0.28	1.2	0.078						0.183	0.489	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Vanadium	7.35	MG_KG		17.6	6	580	39	Y					0.305	0.763	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS85-09D	N	Zinc	5.32	MG_KG		28.6	1200	35000	2300	Y					0.305	1.22	12/15/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						62	190	01/11/10	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						62	190	01/11/10	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Aluminum	695	MG_KG	J	12800		100000	7700	Y					2.99	12	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Antimony	0.897	MG_KG	U	1.87	0.9	47	3.1						0.299	0.897	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Arsenic	0.299	MG_KG	U	1.17	5.8	3	0.67						0.179	0.299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Barium	225	MG_KG		36.7	580	22000	1500	Y	Y				0.299	2.39	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Beryllium	0.299	MG_KG	U	0.195	63	230	16						0.0598	0.299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Cadmium	0.095	MG_KG	J	0.2	3	98	7	Y					0.0598	0.299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Calcium	374	MG_KG	J	8470				Y					59.8	299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Chromium	1.11	MG_KG		17.4	3.8	6.3	0.3	Y					0.12	0.299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Cobalt	0.748	MG_KG	U	0.414	0.9	35	2.3						0.299	0.748	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Copper	1.55	MG_KG	J	17.1	700	4700	310	Y					0.299	0.598	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	HMX	190	UG_KG	U			5700000	380000						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Iron	405	MG_KG		7210	150	82000	5500	Y					1.79	5.98	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Lead	107	MG_KG		27.5	270	800	400	Y	Y				0.0897	0.179	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Magnesium	107	MG_KG	J	904				Y					59.8	299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Manganese	6.66	MG_KG		37	65	2600	180	Y					0.179	0.897	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Mercury	0.0382	MG_KG	U	0.161	1	35	2.3						0.0151	0.0382	01/11/10	METAL	7471A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Nickel	0.598	MG_KG	U	3.11	130	2200	150						0.299	0.598	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Nitrobenzene	190	UG_KG	U			22000	5100						62	190	01/11/10	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Nitroglycerin	640	UG_KG	U			8200	620						210	640	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Perchlorate	0.9	UG_KG	J			82000	5500	Y					0.718	2.39	01/11/10	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	PETN	640	UG_KG	U			160000	12000						210	640	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Potassium	299	MG_KG	U	359									59.8	299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	RDX	190	UG_KG	U			28000	6000						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Selenium	0.299	MG_KG	U	1.59	1.5	580	39						0.179	0.299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Silver	0.299	MG_KG	U	0.354	3.4	580	39						0.0598	0.299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Sodium	299	MG_KG	U	250									59.8	299	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Tetryl	190	UG_KG	U			160000	12000						62	190	01/11/10	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Thallium	0.479	MG_KG	U		0.28	1.2	0.078						0.179	0.479	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Vanadium	1.48	MG_KG		17.6	6	580	39	Y					0.299	0.748	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater and Outside of Crater	MR06-SS87-10A	N	Zinc	7.72	MG_KG		28.6	1200	35000	2300	Y					0.299	1.2	01/11/10	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	1,3,5-Trinitrobenzene	37	UG_KG	U			3200000	220000						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	1,3-Dinitrobenzene	37	UG_KG	U			8200	620						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	2,4,6-Trinitrotoluene	37	UG_KG	U			52000	3600						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	2,4-Dinitrotoluene	37	UG_KG	U		1.6	3400	780						18.5	74.1	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	2,6-Dinitrotoluene	37	UG_KG	U			3400	780						18.5	74.1	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	2-Amino-4,6-dinitrotoluene	37	UG_KG	U			230000	15000						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	2-Nitrotoluene	37	UG_KG	U			15000	3200						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	3-Nitrotoluene	37	UG_KG	U			8200	620						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	4-Amino-2,6-dinitrotoluene	37	UG_KG	U			230000	15000						18.5	74.1	11/15/11	EXPLO	8330B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	4-Nitrotoluene	37	UG_KG	U			140000	25000						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Aluminum	2740	MG_KG		12800		100000	7700	Y					2.77	11.1	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Antimony	0.443	MG_KG	UJ	1.87	0.9	47	3.1						0.277	0.554	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Arsenic	0.79	MG_KG		1.17	5.8	3	0.67	Y					0.166	0.554	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Barium	17	MG_KG		36.7	580	22000	1500	Y					0.277	2.22	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Beryllium	0.103	MG_KG	J	0.195	63	230	16	Y					0.0554	0.277	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0554	0.277	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Calcium	297	MG_KG	J	8470				Y					55.4	277	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Chromium	4.48	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.554	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Cobalt	0.554	MG_KG	U	0.414	0.9	35	2.3						0.277	0.692	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Copper	1.27	MG_KG		17.1	700	4700	310	Y					0.222	0.554	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	HMX	37	UG_KG	UJ			5700000	380000						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Iron	2330	MG_KG	J	7210	150	82000	5500	Y					1.66	5.54	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Lead	5.99	MG_KG		27.5	270	800	400	Y					0.0831	0.277	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Magnesium	107	MG_KG	J	904				Y					55.4	277	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Manganese	18.6	MG_KG	J	37	65	2600	180	Y					0.166	0.831	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Mercury	0.0275	MG_KG	J	0.161	1	35	2.3	Y					0.0142	0.0361	11/15/11	METAL	7471A	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Nickel	0.583	MG_KG		3.11	130	2200	150	Y					0.166	0.554	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Nitrobenzene	37	UG_KG	U			22000	5100						18.5	74.1	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Nitroglycerin	185	UG_KG	U			8200	620						92.6	370	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Perchlorate	2.26	UG_KG	U			82000	5500						0.678	5.65	11/15/11	EXPLO	6850	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	PETN	185	UG_KG	U			160000	12000						92.6	370	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Potassium	182	MG_KG	J	359				Y					55.4	277	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	RDX	37	UG_KG	U			28000	6000						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Selenium	0.277	MG_KG	U	1.59	1.5	580	39						0.166	0.554	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0554	0.554	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Sodium	166	MG_KG	U	250									55.4	277	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Tetryl	37	UG_KG	U			160000	12000						18.5	74.1	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Thallium	0.222	MG_KG	U		0.28	1.2	0.078						0.166	0.443	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Vanadium	6	MG_KG		17.6	6	580	39	Y					0.277	0.692	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88D-IC-11D	FD	Zinc	6.26	MG_KG		28.6	1200	35000	2300	Y					0.277	1.11	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	1,3,5-Trinitrobenzene	39.6	UG_KG	U			3200000	220000						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	1,3-Dinitrobenzene	39.6	UG_KG	U			8200	620						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	2,4,6-Trinitrotoluene	39.6	UG_KG	U			52000	3600						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	2,4-Dinitrotoluene	39.6	UG_KG	U		1.6	3400	780						19.8	79.2	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	2,6-Dinitrotoluene	39.6	UG_KG	U			3400	780						19.8	79.2	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	2-Amino-4,6-dinitrotoluene	39.6	UG_KG	U			230000	15000						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	2-Nitrotoluene	39.6	UG_KG	U			15000	3200						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	3-Nitrotoluene	39.6	UG_KG	U			8200	620						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	4-Amino-2,6-dinitrotoluene	39.6	UG_KG	U			230000	15000						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	4-Nitrotoluene	39.6	UG_KG	U			140000	25000						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Aluminum	2940	MG_KG		12800		100000	7700	Y					2.78	11.1	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Antimony	0.445	MG_KG	UJ	1.87	0.9	47	3.1						0.278	0.556	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Arsenic	0.843	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.556	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Barium	14.9	MG_KG		36.7	580	22000	1500	Y					0.278	2.23	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Beryllium	0.105	MG_KG	J	0.195	63	230	16	Y					0.0556	0.278	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0556	0.278	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Calcium	195	MG_KG	J	8470				Y					55.6	278	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Chromium	4.58	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.556	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Cobalt	0.556	MG_KG	U	0.414	0.9	35	2.3						0.278	0.695	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Copper	1.02	MG_KG		17.1	700	4700	310	Y					0.223	0.556	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	HMX	125	UG_KG	J			5700000	380000	Y					19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Iron	2390	MG_KG	J	7210	150	82000	5500	Y					1.67	5.56	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Lead	4.94	MG_KG		27.5	270	800	400	Y					0.0834	0.278	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Magnesium	107	MG_KG	J	904				Y					55.6	278	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Manganese	11.7	MG_KG	J	37	65	2600	180	Y					0.167	0.834	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Mercury	0.0245	MG_KG	J	0.161	1	35	2.3	Y					0.0146	0.037	11/15/11	METAL	7471A	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Nickel	0.518	MG_KG	J	3.11	130	2200	150	Y					0.167	0.556	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Nitrobenzene	39.6	UG_KG	U			22000	5100						19.8	79.2	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Nitroglycerin	198	UG_KG	U			8200	620						99	396	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Perchlorate	2.17	UG_KG	U			82000	5500						0.651	5.42	11/15/11	EXPLO	6850	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	PETN	198	UG_KG	U			160000	12000						99	396	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Potassium	172	MG_KG	J	359				Y					55.6	278	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	RDX	33.4	UG_KG	J			28000	6000	Y					19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Selenium	0.174	MG_KG	J	1.59	1.5	580	39	Y					0.167	0.556	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0556	0.556	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Sodium	167	MG_KG	U	250									55.6	278	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Tetryl	39.6	UG_KG	U			160000	12000						19.8	79.2	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Thallium	0.223	MG_KG	U		0.28	1.2	0.078						0.167	0.445	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Vanadium	6.56	MG_KG		17.6	6	580	39	Y					0.278	0.695	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Inside of Crater	MR06-SS88-IC-11D	N	Zinc	8.42	MG_KG		28.6	1200	35000	2300	Y					0.278	1.11	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	1,3,5-Trinitrobenzene	38.5	UG_KG	U			3200000	220000						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	1,3-Dinitrobenzene	38.5	UG_KG	U			8200	620						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	2,4,6-Trinitrotoluene	38.5	UG_KG	U			52000	3600						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	2,4-Dinitrotoluene	38.5	UG_KG	U		1.6	3400	780						19.2	76.9	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	2,6-Dinitrotoluene	38.5	UG_KG	U			3400	780						19.2	76.9	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	2-Amino-4,6-dinitrotoluene	38.5	UG_KG	U			230000	15000						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	2-Nitrotoluene	38.5	UG_KG	U			15000	3200						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	3-Nitrotoluene	38.5	UG_KG	U			8200	620						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	4-Amino-2,6-dinitrotoluene	38.5	UG_KG	U			230000	15000						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	4-Nitrotoluene	38.5	UG_KG	U			140000	25000						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Aluminum	2740	MG_KG		12800		100000	7700	Y					3	12	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Antimony	0.481	MG_KG	UJ	1.87	0.9	47	3.1						0.3	0.601	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Arsenic	0.835	MG_KG		1.17	5.8	3	0.67	Y					0.18	0.601	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Barium	13.2	MG_KG		36.7	580	22000	1500	Y					0.3	2.4	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Beryllium	0.112	MG_KG	J	0.195	63	230	16	Y					0.0601	0.3	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Cadmium	0.12	MG_KG	U	0.2	3	98	7						0.0601	0.3	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Calcium	120	MG_KG	U	8470									60.1	300	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Chromium	5.01	MG_KG		17.4	3.8	6.3	0.3	Y					0.12	0.601	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Cobalt	0.601	MG_KG	U	0.414	0.9	35	2.3						0.3	0.751	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Copper	0.933	MG_KG		17.1	700	4700	310	Y					0.24	0.601	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	HMX	38.5	UG_KG	U			5700000	380000						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Iron	2380	MG_KG	J	7210	150	82000	5500	Y					1.8	6.01	11/15/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Lead	4.21	MG_KG		27.5	270	800	400	Y					0.0901	0.3	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Magnesium	104	MG_KG	J	904				Y					60.1	300	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Manganese	4.09	MG_KG		37	65	2600	180	Y					0.18	0.901	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Mercury	0.0216	MG_KG	J	0.161	1	35	2.3	Y					0.0136	0.0345	11/15/11	METAL	7471A	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Nickel	0.293	MG_KG	J	3.11	130	2200	150	Y					0.18	0.601	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Nitrobenzene	38.5	UG_KG	U			22000	5100						19.2	76.9	11/15/11	SVOA	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Nitroglycerin	192	UG_KG	U			8200	620						96.2	385	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Perchlorate	2.37	UG_KG	U			82000	5500						0.71	5.92	11/15/11	EXPLO	6850	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	PETN	192	UG_KG	U			160000	12000						96.2	385	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Potassium	181	MG_KG	J	359				Y					60.1	300	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	RDX	84.8	UG_KG	J			28000	6000	Y					19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Selenium	0.192	MG_KG	J	1.59	1.5	580	39	Y					0.18	0.601	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Silver	0.12	MG_KG	U	0.354	3.4	580	39						0.0601	0.601	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Sodium	180	MG_KG	U	250									60.1	300	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Tetryl	38.5	UG_KG	U			160000	12000						19.2	76.9	11/15/11	EXPLO	8330B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Thallium	0.24	MG_KG	U		0.28	1.2	0.078						0.18	0.481	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Vanadium	7.03	MG_KG		17.6	6	580	39	Y					0.3	0.751	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 2	Single Item/Single Detonation	Outside of Crater	MR06-SS88-OC-11D	N	Zinc	1.99	MG_KG		28.6	1200	35000	2300	Y					0.3	1.2	11/15/11	METAL	6010B	SO
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	2,4,6-Trinitrotoluene	51000	UG_KG				52000	3600	Y			Y		62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	2,4-Dinitrotoluene	200	UG_KG			1.6	3400	780	Y		Y			62	190	11/19/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						62	190	11/19/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	2-Amino-4,6-dinitrotoluene	2000	UG_KG	J			230000	15000	Y					62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	4-Amino-2,6-dinitrotoluene	4000	UG_KG	J			230000	15000	Y					62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Aluminum	3530	MG_KG		12800		100000	7700	Y					3.02	12.1	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Antimony	0.906	MG_KG	UJ	1.87	0.9	47	3.1						0.302	0.906	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Arsenic	0.495	MG_KG		1.17	5.8	3	0.67	Y					0.181	0.302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Barium	9.1	MG_KG	J	36.7	580	22000	1500	Y					0.302	2.42	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Beryllium	0.302	MG_KG	U	0.195	63	230	16						0.0604	0.302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Cadmium	0.302	MG_KG	U	0.2	3	98	7						0.0604	0.302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Calcium	1430	MG_KG	J	8470				Y					60.4	302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Chromium	4.09	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.121	0.302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Cobalt	0.755	MG_KG	U	0.414	0.9	35	2.3						0.302	0.755	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Copper	3.86	MG_KG		17.1	700	4700	310	Y					0.302	0.604	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	HMX	32000	UG_KG				5700000	380000	Y					62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Iron	2270	MG_KG		7210	150	82000	5500	Y					1.81	6.04	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Lead	14.6	MG_KG		27.5	270	800	400	Y					0.0906	0.181	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Magnesium	126	MG_KG	J	904				Y					60.4	302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Manganese	7.02	MG_KG		37	65	2600	180	Y					0.181	0.906	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Mercury	0.0429	MG_KG	U	0.161	1	35	2.3						0.0169	0.0429	11/19/09	METAL	7471A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Nickel	1.24	MG_KG		3.11	130	2200	150	Y					0.302	0.604	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Nitrobenzene	190	UG_KG	U			22000	5100						62	190	11/19/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Nitroglycerin	310	UG_KG	J			8200	620	Y					210	640	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Perchlorate	2.43	UG_KG	U			82000	5500						0.728	2.43	11/19/09	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	PETN	640	UG_KG	U			160000	12000						210	640	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Potassium	168	MG_KG	J	359				Y					60.4	302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	RDX	98000	UG_KG				28000	6000	Y			Y	Y	62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Selenium	0.413	MG_KG		1.59	1.5	580	39	Y					0.181	0.302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Silver	0.302	MG_KG	U	0.354	3.4	580	39						0.0604	0.302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Sodium	302	MG_KG	U	250									60.4	302	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Tetryl	190	UG_KG	R			160000	12000						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Thallium	0.483	MG_KG	U		0.28	1.2	0.078						0.242	0.483	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Vanadium	4.04	MG_KG		17.6	6	580	39	Y					0.302	0.755	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83-0-6-09D	N	Zinc	4.04	MG_KG	J	28.6	1200	35000	2300	Y					0.302	1.21	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	2,4,6-Trinitrotoluene	36000	UG_KG				52000	3600	Y				Y	62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	2,4-Dinitrotoluene	220	UG_KG	J		1.6	3400	780	Y		Y			62	190	11/19/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	2,6-Dinitrotoluene	130	UG_KG	J			3400	780	Y					62	190	11/19/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	2-Amino-4,6-dinitrotoluene	2200	UG_KG	J			230000	15000	Y					62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	2-Nitrotoluene	190	UG_KG	U			15000	3200						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	3-Nitrotoluene	190	UG_KG	U			8200	620						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	4-Amino-2,6-dinitrotoluene	4200	UG_KG	J			230000	15000	Y					62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	4-Nitrotoluene	190	UG_KG	U			140000	25000						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Aluminum	3300	MG_KG		12800		100000	7700	Y					2.97	11.9	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Antimony	0.89	MG_KG	UJ	1.87	0.9	47	3.1						0.297	0.89	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Arsenic	0.418	MG_KG		1.17	5.8	3	0.67	Y					0.178	0.297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Barium	7.57	MG_KG	J	36.7	580	22000	1500	Y					0.297	2.37	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Beryllium	0.297	MG_KG	U	0.195	63	230	16						0.0594	0.297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Cadmium	0.297	MG_KG	U	0.2	3	98	7						0.0594	0.297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Calcium	1200	MG_KG	J	8470				Y					59.4	297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Chromium	3.83	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.119	0.297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Cobalt	0.742	MG_KG	U	0.414	0.9	35	2.3						0.297	0.742	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Copper	4.36	MG_KG		17.1	700	4700	310	Y					0.297	0.594	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	HMX	29000	UG_KG				5700000	380000	Y					62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Iron	1820	MG_KG		7210	150	82000	5500	Y					1.78	5.94	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Lead	14	MG_KG		27.5	270	800	400	Y					0.089	0.178	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Magnesium	116	MG_KG	J	904				Y					59.4	297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Manganese	6.17	MG_KG		37	65	2600	180	Y					0.178	0.89	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Mercury	0.0383	MG_KG	U	0.161	1	35	2.3						0.0151	0.0383	11/19/09	METAL	7471A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Nickel	1.26	MG_KG		3.11	130	2200	150	Y					0.297	0.594	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Nitrobenzene	190	UG_KG	U			22000	5100						62	190	11/19/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Nitroglycerin	270	UG_KG	J			8200	620	Y					210	640	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Perchlorate	2.4	UG_KG	U			82000	5500						0.719	2.4	11/19/09	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	PETN	640	UG_KG	U			160000	12000						210	640	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Potassium	160	MG_KG	J	359				Y					59.4	297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	RDX	85000	UG_KG				28000	6000	Y			Y	Y	62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Selenium	0.213	MG_KG	J	1.59	1.5	580	39	Y					0.178	0.297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Silver	0.297	MG_KG	U	0.354	3.4	580	39						0.0594	0.297	11/19/09	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Sodium	297	MG_KG	U	250									59.4	297	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Tetryl	190	UG_KG	R			160000	12000						62	190	11/19/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Thallium	0.475	MG_KG	U		0.28	1.2	0.078						0.237	0.475	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Vanadium	3.89	MG_KG		17.6	6	580	39	Y					0.297	0.742	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS83D-0-6-09D	FD	Zinc	2.4	MG_KG	J	28.6	1200	35000	2300	Y					0.297	1.19	11/19/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	1,3,5-Trinitrobenzene	190	UG_KG	UJ			3200000	220000						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	1,3-Dinitrobenzene	190	UG_KG	UJ			8200	620						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	2,4,6-Trinitrotoluene	190	UG_KG	UJ			52000	3600						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	2,4-Dinitrotoluene	190	UG_KG	UJ		1.6	3400	780						62	190	12/01/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	2,6-Dinitrotoluene	190	UG_KG	UJ			3400	780						62	190	12/01/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	UJ			230000	15000						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	2-Nitrotoluene	190	UG_KG	UJ			15000	3200						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	3-Nitrotoluene	190	UG_KG	UJ			8200	620						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	UJ			230000	15000						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	4-Nitrotoluene	190	UG_KG	UJ			140000	25000						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Aluminum	6790	MG_KG		12800		100000	7700	Y					2.75	11	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Antimony	0.825	MG_KG	U	1.87	0.9	47	3.1						0.275	0.825	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Arsenic	1.41	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Barium	101	MG_KG		36.7	580	22000	1500	Y	Y				0.275	2.2	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Beryllium	0.0916	MG_KG	J	0.195	63	230	16	Y					0.055	0.275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Cadmium	0.275	MG_KG	U	0.2	3	98	7						0.055	0.275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Calcium	1200	MG_KG		8470				Y					55	275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Chromium	8.07	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Cobalt	0.374	MG_KG	J	0.414	0.9	35	2.3	Y					0.275	0.688	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Copper	7.89	MG_KG		17.1	700	4700	310	Y					0.275	0.55	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	HMX	190	UG_KG	UJ			5700000	380000						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Iron	4470	MG_KG		7210	150	82000	5500	Y					1.65	5.5	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Lead	27.3	MG_KG		27.5	270	800	400	Y					0.0825	0.165	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Magnesium	308	MG_KG		904				Y					55	275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Manganese	13	MG_KG	J	37	65	2600	180	Y					0.165	0.825	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Mercury	0.0224	MG_KG	J	0.161	1	35	2.3	Y					0.0154	0.0391	12/01/09	METAL	7471A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Nickel	1.85	MG_KG		3.11	130	2200	150	Y					0.275	0.55	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Nitrobenzene	190	UG_KG	UJ			22000	5100						62	190	12/01/09	SVOA	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Nitroglycerin	640	UG_KG	UJ			8200	620						210	640	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Perchlorate	1.4	UG_KG	J			82000	5500	Y					0.664	2.21	12/01/09	EXPLO	6850	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	PETN	640	UG_KG	UJ			160000	12000						210	640	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Potassium	253	MG_KG	J	359				Y					55	275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	RDX	190	UG_KG	UJ			28000	6000						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Silver	0.275	MG_KG	U	0.354	3.4	580	39						0.11	0.275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Sodium	275	MG_KG	U	250									55	275	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Tetryl	190	UG_KG	UJ			160000	12000						62	190	12/01/09	EXPLO	8330A	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Thallium	0.44	MG_KG	U		0.28	1.2	0.078						0.165	0.44	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Vanadium	12.7	MG_KG		17.6	6	580	39	Y					0.275	0.688	12/01/09	METAL	6010B	SS
UXO-06	BPEA Phase 1A Subarea 1	Single Item/Single Detonation	Inside of Crater	MR06-SS84-09D	N	Zinc	8.47	MG_KG	J	28.6	1200	35000	2300	Y					0.275	1.1	12/01/09	METAL	6010B	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	1,3,5-Trinitrobenzene	60.6	UG_KG	U			3200000	220000						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	1,3-Dinitrobenzene	42.2	UG_KG	J			8200	620	Y					30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	2,4,6-Trinitrotoluene	60.6	UG_KG	U			52000	3600						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	2,4-Dinitrotoluene	60.6	UG_KG	U		1.6	3400	780						30.3	121	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	2,6-Dinitrotoluene	60.6	UG_KG	U			3400	780						30.3	121	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	2-Amino-4,6-dinitrotoluene	60.6	UG_KG	U			230000	15000						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	2-Nitrotoluene	60.6	UG_KG	U			15000	3200						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	3-Nitrotoluene	60.6	UG_KG	U			8200	620						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	4-Amino-2,6-dinitrotoluene	60.6	UG_KG	UQ			230000	15000						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	4-Nitrotoluene	60.6	UG_KG	U			140000	25000						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Aluminum	9220	MG_KG		12800		100000	7700	Y					3	12	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Antimony	0.479	MG_KG	UN	1.87	0.9	47	3.1						0.3	0.899	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Arsenic	1.29	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.18	0.599	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Barium	15.5	MG_KG		36.7	580	22000	1500	Y					0.3	2.4	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Beryllium	0.0741	MG_KG	J	0.195	63	230	16	Y					0.0599	0.3	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Cadmium	0.12	MG_KG	U	0.2	3	98	7						0.0599	0.3	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Chromium	10.6	MG_KG		17.4	3.8	6.3	0.3	Y					0.12	0.599	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Cobalt	0.331	MG_KG	J	0.414	0.9	35	2.3	Y					0.3	0.749	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Copper	2.47	MG_KG	N	17.1	700	4700	310	Y					0.24	0.599	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	HMX	60.6	UG_KG	U			5700000	380000						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Iron	5780	MG_KG		7210	150	82000	5500	Y					1.8	5.99	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Lead	7.38	MG_KG		27.5	270	800	400	Y					0.0899	0.18	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Manganese	3.84	MG_KG	N	37	65	2600	180	Y					0.18	0.899	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Mercury	0.0197	MG_KG	J	0.161	1	35	2.3	Y					0.0126	0.033	10/18/10	METAL	7471A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Nickel	1.7	MG_KG		3.11	130	2200	150	Y					0.18	0.599	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Nitrobenzene	60.6	UG_KG	U			22000	5100						30.3	121	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Nitroglycerin	152	UG_KG	UQ			8200	620						75.8	303	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Perchlorate	12.4	UG_KG				82000	5500	Y					0.719	5.99	10/18/10	EXPLO	6850	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	PETN	152	UG_KG	U			160000	12000						75.8	303	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	RDX	201	UG_KG				28000	6000	Y					30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Selenium	0.464	MG_KG	J	1.59	1.5	580	39	Y					0.18	0.599	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Silver	0.18	MG_KG	M, U	0.354	3.4	580	39						0.18	0.599	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Tetryl	60.6	UG_KG	U			160000	12000						30.3	121	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Thallium	0.24	MG_KG	U		0.28	1.2	0.078						0.18	0.479	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Vanadium	15.4	MG_KG		17.6	6	580	39	Y					0.3	0.749	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01-10D	N	Zinc	4.8	MG_KG	N	28.6	1200	35000	2300	Y					0.3	1.2	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	1,3,5-Trinitrobenzene	62.5	UG_KG	U			3200000	220000						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	1,3-Dinitrobenzene	62.5	UG_KG	U			8200	620						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	2,4,6-Trinitrotoluene	62.5	UG_KG	U			52000	3600						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	2,4-Dinitrotoluene	62.5	UG_KG	U		1.6	3400	780						31.2	125	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	2,6-Dinitrotoluene	62.5	UG_KG	U			3400	780						31.2	125	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	2-Amino-4,6-dinitrotoluene	62.5	UG_KG	U			230000	15000						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	2-Nitrotoluene	62.5	UG_KG	U			15000	3200						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	3-Nitrotoluene	62.5	UG_KG	U			8200	620						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	4-Amino-2,6-dinitrotoluene	62.5	UG_KG	UQ			230000	15000						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	4-Nitrotoluene	62.5	UG_KG	U			140000	25000						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Aluminum	9260	MG_KG		12800		100000	7700	Y					2.88	11.5	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Antimony	0.461	MG_KG	UN	1.87	0.9	47	3.1						0.288	0.864	10/18/10	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Arsenic	1.25	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.576	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Barium	17.4	MG_KG		36.7	580	22000	1500	Y					0.288	2.31	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Beryllium	0.0676	MG_KG	J	0.195	63	230	16	Y					0.0576	0.288	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0576	0.288	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Chromium	10.4	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.576	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Cobalt	0.333	MG_KG	J	0.414	0.9	35	2.3	Y					0.288	0.72	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Copper	4.17	MG_KG	N	17.1	700	4700	310	Y					0.231	0.576	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	HMX	62.5	UG_KG	U			5700000	380000						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Iron	5950	MG_KG		7210	150	82000	5500	Y					1.73	5.76	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Lead	6.92	MG_KG		27.5	270	800	400	Y					0.0864	0.173	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Manganese	3.54	MG_KG	N	37	65	2600	180	Y					0.173	0.864	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Mercury	0.0268	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.033	10/18/10	METAL	7471A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Nickel	1.68	MG_KG		3.11	130	2200	150	Y					0.173	0.576	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Nitrobenzene	62.5	UG_KG	U			22000	5100						31.2	125	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Nitroglycerin	156	UG_KG	UQ			8200	620						78.1	312	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Perchlorate	15.6	UG_KG				82000	5500	Y					0.698	5.82	10/18/10	EXPLO	6850	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	PETN	156	UG_KG	U			160000	12000						78.1	312	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	RDX	62.5	UG_KG	U			28000	6000						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Selenium	0.603	MG_KG		1.59	1.5	580	39	Y					0.173	0.576	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Silver	0.115	MG_KG	M, U	0.354	3.4	580	39						0.115	0.576	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Tetryl	62.5	UG_KG	U			160000	12000						31.2	125	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Thallium	0.231	MG_KG	U		0.28	1.2	0.078						0.173	0.461	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Vanadium	15.4	MG_KG		17.6	6	580	39	Y					0.288	0.72	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Inside of Crater	MR08-SS01D-10D	FD	Zinc	4.98	MG_KG	N	28.6	1200	35000	2300	Y					0.288	1.15	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	1,3,5-Trinitrobenzene	64.5	UG_KG	U			3200000	220000						32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	1,3-Dinitrobenzene	228	UG_KG	P			8200	620	Y					32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	2,4,6-Trinitrotoluene	174	UG_KG	PM			52000	3600	Y					32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	2,4-Dinitrotoluene	64.5	UG_KG	U		1.6	3400	780						32.3	129	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	2,6-Dinitrotoluene	64.5	UG_KG	U			3400	780						32.3	129	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	2-Amino-4,6-dinitrotoluene	64.5	UG_KG	U			230000	15000						32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	2-Nitrotoluene	64.5	UG_KG	U			15000	3200						32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	3-Nitrotoluene	64.5	UG_KG	U			8200	620						32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	4-Amino-2,6-dinitrotoluene	64.5	UG_KG	UQ			230000	15000						32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	4-Nitrotoluene	64.5	UG_KG	U			140000	25000						32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Aluminum	7570	MG_KG		12800		100000	7700	Y					3.05	12.2	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Antimony	0.488	MG_KG	UN	1.87	0.9	47	3.1						0.305	0.915	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Arsenic	1.35	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.183	0.61	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Barium	17.4	MG_KG		36.7	580	22000	1500	Y					0.305	2.44	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Beryllium	0.081	MG_KG	J	0.195	63	230	16	Y					0.061	0.305	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Cadmium	0.122	MG_KG	U	0.2	3	98	7						0.061	0.305	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Chromium	9.46	MG_KG		17.4	3.8	6.3	0.3	Y					0.122	0.61	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Cobalt	0.337	MG_KG	J	0.414	0.9	35	2.3	Y					0.305	0.763	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Copper	2.87	MG_KG	N	17.1	700	4700	310	Y					0.244	0.61	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	HMX	64.5	UG_KG	U			5700000	380000						32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Iron	4750	MG_KG		7210	150	82000	5500	Y					1.83	6.1	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Lead	11.5	MG_KG		27.5	270	800	400	Y					0.0915	0.183	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Manganese	14.9	MG_KG	N	37	65	2600	180	Y					0.183	0.915	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Mercury	0.0286	MG_KG	J	0.161	1	35	2.3	Y					0.0152	0.0385	10/18/10	METAL	7471A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Nickel	2.25	MG_KG		3.11	130	2200	150	Y					0.183	0.61	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Nitrobenzene	141	UG_KG	PM			22000	5100	Y					32.3	129	10/18/10	SVOA	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Nitroglycerin	161	UG_KG	UQ			8200	620						80.6	323	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Perchlorate	1.1	UG_KG	Z-01, J			82000	5500	Y					0.747	6.22	10/18/10	EXPLO	6850	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	PETN	161	UG_KG	U			160000	12000						80.6	323	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	RDX	112	UG_KG	JP			28000	6000	Y					32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Selenium	0.634	MG_KG		1.59	1.5	580	39	Y					0.183	0.61	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Silver	0.122	MG_KG	M, U	0.354	3.4	580	39						0.122	0.61	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Tetryl	53.2	UG_KG	JPM			160000	12000	Y					32.3	129	10/18/10	EXPLO	8330A	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Thallium	0.244	MG_KG	U		0.28	1.2	0.078						0.183	0.488	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Vanadium	13.4	MG_KG		17.6	6	580	39	Y					0.305	0.763	10/18/10	METAL	6010C	SS
UXO-08	PA/SI	Single Item/Single Detonation	Outside of Crater	MR08-SS02-10D	N	Zinc	8.53	MG_KG	N	28.6	1200	35000	2300	Y					0.305	1.22	10/18/10	METAL	6010C	SS
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	1,3,5-Trinitrobenzene	115	UG_KG	JMP			3200000	220000	Y					95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	4-Amino-2,6-dinitrotoluene	212	UG_KG	J			230000	15000	Y					95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Aluminum	4030	MG_KG		12800		100000	7700	Y					2.97	11.9	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Antimony	0.475	MG_KG	UN	1.87	0.9	47	3.1						0.297	0.593	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Arsenic	1.09	MG_KG		1.17	5.8	3	0.67	Y					0.178	0.593	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Barium	12	MG_KG		36.7	580	22000	1500	Y					0.297	2.37	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Beryllium	0.0969	MG_KG	Y, J	0.195	63	230	16	Y					0.0593	0.297	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Cadmium	0.0756	MG_KG	J	0.2	3	98	7	Y					0.0593	0.297	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Calcium	5340	MG_KG	*	8470				Y					59.3	297	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Chromium	4.68	MG_KG		17.4	3.8	6.3	0.3	Y					0.119	0.593	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Cobalt	0.593	MG_KG	U	0.414	0.9	35	2.3						0.297	0.742	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Copper	1.93	MG_KG		17.1	700	4700	310	Y					0.237	0.593	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Iron	2710	MG_KG		7210	150	82000	5500	Y					1.78	5.93	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Lead	9	MG_KG		27.5	270	800	400	Y					0.089	0.178	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Magnesium	251	MG_KG	JN	904				Y					59.3	297	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Manganese	14.1	MG_KG		37	65	2600	180	Y					0.178	0.89	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Mercury	0.0174	MG_KG	J	0.161	1	35	2.3	Y					0.0156	0.0397	03/30/11	METAL	7471A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Nickel	1.12	MG_KG		3.11	130	2200	150	Y					0.178	0.593	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Perchlorate	2.33	UG_KG	U			82000	5500						0.698	5.81	03/30/11	EXPLO	6850	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	PETN	476	UG_KG	U			160000	12000						238	952	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Potassium	160	MG_KG	J	359				Y					59.3	297	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	RDX	190	UG_KG	U			28000	6000						95.2	381	03/30/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Selenium	0.284	MG_KG	J	1.59	1.5	580	39	Y					0.178	0.593	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Silver	0.119	MG_KG	U	0.354	3.4	580	39						0.0593	0.593	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Sodium	178	MG_KG	U	250									59.3	297	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Thallium	0.237	MG_KG	U		0.28	1.2	0.078						0.178	0.475	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Vanadium	7.55	MG_KG		17.6	6	580	39	Y					0.297	0.742	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20-11A	N	Zinc	64.7	MG_KG		28.6	1200	35000	2300	Y	Y				0.297	1.19	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	2-Amino-4,6-dinitrotoluene	111	UG_KG	JMP			230000	15000	Y					87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	4-Amino-2,6-dinitrotoluene	210	UG_KG	J			230000	15000	Y					87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Aluminum	3970	MG_KG		12800		100000	7700	Y					2.91	11.7	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Antimony	0.466	MG_KG	UN	1.87	0.9	47	3.1						0.291	0.583	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Arsenic	1.06	MG_KG		1.17	5.8	3	0.67	Y					0.175	0.583	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Barium	10.9	MG_KG		36.7	580	22000	1500	Y					0.291	2.33	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Beryllium	0.101	MG_KG	Y, J	0.195	63	230	16	Y					0.0583	0.291	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Cadmium	0.0663	MG_KG	J	0.2	3	98	7	Y					0.0583	0.291	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Calcium	4760	MG_KG	*	8470				Y					58.3	291	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Chromium	4.69	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.583	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Cobalt	0.583	MG_KG	U	0.414	0.9	35	2.3						0.291	0.729	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Copper	1.72	MG_KG		17.1	700	4700	310	Y					0.233	0.583	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	HMX	174	UG_KG	U			5700000	380000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Iron	2580	MG_KG		7210	150	82000	5500	Y					1.75	5.83	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Lead	8.61	MG_KG		27.5	270	800	400	Y					0.0874	0.175	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Magnesium	265	MG_KG	JN	904				Y					58.3	291	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Manganese	12.2	MG_KG		37	65	2600	180	Y					0.175	0.874	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Mercury	0.0176	MG_KG	J	0.161	1	35	2.3	Y					0.0132	0.0334	03/30/11	METAL	7471A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Nickel	1.08	MG_KG		3.11	130	2200	150	Y					0.175	0.583	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Nitroglycerin	435	UG_KG	U			8200	620						217	870	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Perchlorate	2.3	UG_KG	U			82000	5500						0.689	5.74	03/30/11	EXPLO	6850	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	PETN	435	UG_KG	U			160000	12000						217	870	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Potassium	163	MG_KG	J	359				Y					58.3	291	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	RDX	114	UG_KG	JP			28000	6000	Y					87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Selenium	0.215	MG_KG	J	1.59	1.5	580	39	Y					0.175	0.583	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0583	0.583	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Sodium	175	MG_KG	U	250									58.3	291	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Tetryl	174	UG_KG	U			160000	12000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Thallium	0.233	MG_KG	U		0.28	1.2	0.078						0.175	0.466	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Vanadium	6.54	MG_KG		17.6	6	580	39	Y					0.291	0.729	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Inside of Crater	MR17-SS20P-11A	FD	Zinc	66.7	MG_KG		28.6	1200	35000	2300	Y	Y				0.291	1.17	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	1,3-Dinitrobenzene	174	UG_KG	UN			8200	620						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	3-Nitrotoluene	174	UG_KG	UN			8200	620						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	4-Nitrotoluene	174	UG_KG	UN			140000	25000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Aluminum	4330	MG_KG		12800		100000	7700	Y					2.89	11.5	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Antimony	0.462	MG_KG	UN	1.87	0.9	47	3.1						0.289	0.577	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Arsenic	1.19	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.577	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Barium	10.3	MG_KG		36.7	580	22000	1500	Y					0.289	2.31	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Beryllium	0.101	MG_KG	Y, J	0.195	63	230	16	Y					0.0577	0.289	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0577	0.289	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Calcium	9320	MG_KG	*	8470				Y	Y				57.7	289	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Chromium	5.57	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.577	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Cobalt	0.577	MG_KG	U	0.414	0.9	35	2.3						0.231	0.721	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Copper	1.8	MG_KG		17.1	700	4700	310	Y					0.231	0.577	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	HMX	174	UG_KG	U			5700000	380000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Iron	3210	MG_KG		7210	150	82000	5500	Y					1.73	5.77	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Lead	6.2	MG_KG		27.5	270	800	400	Y					0.0866	0.173	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Magnesium	546	MG_KG	N	904				Y					57.7	289	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Manganese	14	MG_KG		37	65	2600	180	Y					0.173	0.866	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Mercury	0.0143	MG_KG	J	0.161	1	35	2.3	Y					0.0132	0.0336	03/30/11	METAL	7471A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Nickel	1.19	MG_KG		3.11	130	2200	150	Y					0.173	0.577	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	03/30/11	SVOA	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Perchlorate	2.31	UG_KG	U			82000	5500						0.693	5.77	03/30/11	EXPLO	6850	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	PETN	435	UG_KG	U			160000	12000						217	870	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Potassium	198	MG_KG	J	359				Y					57.7	289	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	RDX	174	UG_KG	U			28000	6000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Selenium	0.289	MG_KG	U	1.59	1.5	580	39						0.173	0.577	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.0577	0.577	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Sodium	173	MG_KG	U	250									57.7	289	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Tetryl	174	UG_KG	U			160000	12000						87	348	03/30/11	EXPLO	8330A	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Thallium	0.231	MG_KG	U		0.28	1.2	0.078						0.173	0.462	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Vanadium	8.16	MG_KG		17.6	6	580	39	Y					0.289	0.721	03/30/11	METAL	6010B	SO
UXO-17	PA/SI	Single Item/Single Detonation	Outside of Crater	MR17-SS21-11A	N	Zinc	14.6	MG_KG		28.6	1200	35000	2300	Y					0.289	1.15	03/30/11	METAL	6010B	SO
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Aluminum	9220	MG_KG		19000		100000	7700	Y					2.86	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Antimony	0.457	MG_KG	UJ	1.1	0.9	47	3.1						0.286	0.571	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Arsenic	2.19	MG_KG		5.09	5.8	3	0.67	Y					0.171	0.571	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Barium	32.2	MG_KG		28.3	580	22000	1500	Y	Y				0.286	2.29	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Beryllium	0.155	MG_KG	J	0.332	63	230	16	Y					0.0571	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Cadmium	0.275	MG_KG	J	0.208	3	98	7	Y	Y				0.0571	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Calcium	16300	MG_KG	J	1530				Y	Y				57.1	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Chromium	12.8	MG_KG	J	27.6	3.8	6.3	0.3	Y					0.114	0.571	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Cobalt	0.76	MG_KG		1.36	0.9	35	2.3	Y					0.286	0.714	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Copper	4.98	MG_KG	J	6.05	700	4700	310	Y					0.229	0.571	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Iron	4660	MG_KG		12700	150	82000	5500	Y					1.71	5.71	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Lead	8.66	MG_KG		11.2	270	800	400	Y					0.0857	0.171	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Magnesium	472	MG_KG	J	776				Y					57.1	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Manganese	31.5	MG_KG		18.3	65	2600	180	Y	Y				0.171	0.857	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Mercury	0.0121	MG_KG	J	0.0852	1	35	2.3	Y					0.0109	0.0276	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Nickel	4.23	MG_KG		7.08	130	2200	150	Y					0.171	0.571	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Perchlorate	34.3	UG_KG				82000	5500	Y					5.86	23.4	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Potassium	328	MG_KG	J	620				Y					57.1	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	RDX	190	UG_KG	U			28000	6000						190	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Selenium	0.368	MG_KG	J	0.736	1.5	580	39	Y					0.171	0.571	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Silver	0.114	MG_KG	U	0.198	3.4	580	39						0.0571	0.571	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Sodium	115	MG_KG	J					Y					57.1	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.171	0.457	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Vanadium	12.5	MG_KG		35.6	6	580	39	Y					0.286	0.714	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01-12A	N	Zinc	20.2	MG_KG	J	14.1	1200	35000	2300	Y	Y				0.286	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Aluminum	11100	MG_KG		19000		100000	7700	Y					2.87	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Antimony	0.459	MG_KG	UJ	1.1	0.9	47	3.1						0.287	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Arsenic	2.07	MG_KG		5.09	5.8	3	0.67	Y					0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Barium	42.6	MG_KG		28.3	580	22000	1500	Y	Y				0.287	2.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Beryllium	0.176	MG_KG	J	0.332	63	230	16	Y					0.0574	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Cadmium	0.144	MG_KG	J	0.208	3	98	7	Y					0.0574	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Calcium	8450	MG_KG	J	1530				Y	Y				57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Chromium	10.2	MG_KG	J	27.6	3.8	6.3	0.3	Y					0.115	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Cobalt	0.797	MG_KG		1.36	0.9	35	2.3	Y					0.287	0.718	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Copper	3.69	MG_KG	J	6.05	700	4700	310	Y					0.23	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	HMX	154	UG_KG	U			5700000	380000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Iron	7730	MG_KG		12700	150	82000	5500	Y					1.72	5.74	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Lead	9.41	MG_KG		11.2	270	800	400	Y					0.0861	0.172	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Magnesium	423	MG_KG	J	776				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Manganese	30.6	MG_KG		18.3	65	2600	180	Y	Y				0.172	0.861	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Mercury	0.0152	MG_KG	J	0.0852	1	35	2.3	Y					0.0126	0.0319	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Nickel	3.9	MG_KG		7.08	130	2200	150	Y					0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Nitroglycerin	385	UG_KG	U			8200	620						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Perchlorate	11.6	UG_KG	U			82000	5500						5.8	23.2	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	PETN	385	UG_KG	U			160000	12000						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Potassium	240	MG_KG	J	620				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	RDX	178	UG_KG	J			28000	6000	Y					76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Selenium	0.246	MG_KG	J	0.736	1.5	580	39	Y					0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Silver	0.115	MG_KG	U	0.198	3.4	580	39						0.115	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Sodium	75.6	MG_KG	J					Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Tetryl	154	UG_KG	U			160000	12000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Thallium	0.23	MG_KG	U		0.28	1.2	0.078						0.23	0.459	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Vanadium	12.8	MG_KG		35.6	6	580	39	Y					0.287	0.718	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	subsurface	CDCA-IS01D-12A	FD	Zinc	16.4	MG_KG	J	14.1	1200	35000	2300	Y	Y				0.287	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Aluminum	4740	MG_KG		12800		100000	7700	Y					2.92	11.7	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Antimony	0.467	MG_KG	UN	1.87	0.9	47	3.1						0.292	0.584	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Arsenic	1.71	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.175	0.584	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Barium	17.2	MG_KG		36.7	580	22000	1500	Y					0.292	2.34	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Beryllium	0.11	MG_KG	Y, J	0.195	63	230	16	Y					0.0584	0.292	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Cadmium	0.0964	MG_KG	J	0.2	3	98	7	Y					0.0584	0.292	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Calcium	705	MG_KG		8470				Y					58.4	292	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Chromium	5.27	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.584	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Cobalt	0.584	MG_KG	U	0.414	0.9	35	2.3						0.292	0.73	04/06/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Copper	4.46	MG_KG		17.1	700	4700	310	Y					0.234	0.584	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Iron	1810	MG_KG		7210	150	82000	5500	Y					1.75	5.84	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Lead	8.92	MG_KG		27.5	270	800	400	Y					0.0876	0.175	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Magnesium	150	MG_KG	J	904				Y					58.4	292	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Manganese	9.36	MG_KG	N	37	65	2600	180	Y					0.175	0.876	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Mercury	0.0226	MG_KG	J	0.161	1	35	2.3	Y					0.0142	0.036	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Nickel	1.28	MG_KG		3.11	130	2200	150	Y					0.175	0.584	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Perchlorate	2.32	UG_KG	U			82000	5500						0.697	5.81	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Potassium	156	MG_KG	J	359				Y					58.4	292	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Selenium	0.292	MG_KG	U	1.59	1.5	580	39						0.175	0.584	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0584	0.584	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Sodium	175	MG_KG	U	250									58.4	292	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Thallium	0.234	MG_KG	U		0.28	1.2	0.078						0.175	0.467	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Vanadium	5.46	MG_KG		17.6	6	580	39	Y					0.292	0.73	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS100-IC-11B	N	Zinc	15.8	MG_KG		28.6	1200	35000	2300	Y					0.292	1.17	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Aluminum	3940	MG_KG		12800		100000	7700	Y					2.87	11.5	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Antimony	0.459	MG_KG	UN	1.87	0.9	47	3.1						0.287	0.573	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Arsenic	1.95	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.573	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Barium	11	MG_KG		36.7	580	22000	1500	Y					0.287	2.29	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Beryllium	0.088	MG_KG	Y, J	0.195	63	230	16	Y					0.0573	0.287	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Cadmium	0.0599	MG_KG	J	0.2	3	98	7	Y					0.0573	0.287	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Calcium	738	MG_KG		8470				Y					57.3	287	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Chromium	4.25	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.573	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Cobalt	0.573	MG_KG	U	0.414	0.9	35	2.3						0.287	0.717	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Copper	10.4	MG_KG		17.1	700	4700	310	Y					0.229	0.573	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Iron	1550	MG_KG		7210	150	82000	5500	Y					1.72	5.73	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Lead	7.22	MG_KG		27.5	270	800	400	Y					0.086	0.172	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Magnesium	109	MG_KG	J	904				Y					57.3	287	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Manganese	10.8	MG_KG	N	37	65	2600	180	Y					0.172	0.86	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Mercury	0.0214	MG_KG	J	0.161	1	35	2.3	Y					0.0144	0.0366	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Nickel	1.1	MG_KG		3.11	130	2200	150	Y					0.172	0.573	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.688	5.73	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	PETN	370	UG_KG	U			160000	12000						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Potassium	123	MG_KG	J	359				Y					57.3	287	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	RDX	148	UG_KG	U			28000	6000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Selenium	0.287	MG_KG	U	1.59	1.5	580	39						0.172	0.573	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.0573	0.573	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Sodium	172	MG_KG	U	250									57.3	287	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.172	0.459	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Vanadium	4.54	MG_KG		17.6	6	580	39	Y					0.287	0.717	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS100-OC-11B	N	Zinc	17.4	MG_KG		28.6	1200	35000	2300	Y					0.287	1.15	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Aluminum	4540	MG_KG		12800		100000	7700	Y					3.02	12.1	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Antimony	0.482	MG_KG	UN	1.87	0.9	47	3.1						0.302	0.603	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.181	0.603	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Barium	18.7	MG_KG		36.7	580	22000	1500	Y					0.302	2.41	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Beryllium	0.103	MG_KG	Y, J	0.195	63	230	16	Y					0.0603	0.302	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Cadmium	0.0609	MG_KG	J	0.2	3	98	7	Y					0.0603	0.302	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Calcium	616	MG_KG		8470				Y					60.3	302	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Chromium	4.48	MG_KG		17.4	3.8	6.3	0.3	Y					0.121	0.603	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Cobalt	0.603	MG_KG	U	0.414	0.9	35	2.3						0.302	0.754	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Copper	4.32	MG_KG		17.1	700	4700	310	Y					0.241	0.603	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Iron	2190	MG_KG		7210	150	82000	5500	Y					1.81	6.03	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Lead	7.53	MG_KG		27.5	270	800	400	Y					0.0905	0.181	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Magnesium	135	MG_KG	J	904				Y					60.3	302	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Manganese	11.3	MG_KG	N	37	65	2600	180	Y					0.181	0.905	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Mercury	0.0196	MG_KG	J	0.161	1	35	2.3	Y					0.0145	0.0368	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Nickel	1.24	MG_KG		3.11	130	2200	150	Y					0.181	0.603	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Perchlorate	2.38	UG_KG	U			82000	5500						0.713	5.94	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	PETN	357	UG_KG	U			160000	12000						179	714	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Potassium	136	MG_KG	J	359				Y					60.3	302	04/06/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	RDX	143	UG_KG	U			28000	6000						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Selenium	0.239	MG_KG	J	1.59	1.5	580	39	Y					0.181	0.603	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Silver	0.121	MG_KG	U	0.354	3.4	580	39						0.0603	0.603	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Sodium	181	MG_KG	U	250									60.3	302	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Thallium	0.241	MG_KG	U		0.28	1.2	0.078						0.181	0.482	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Vanadium	5.23	MG_KG		17.6	6	580	39	Y					0.302	0.754	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS101-IC-11B	N	Zinc	17.8	MG_KG		28.6	1200	35000	2300	Y					0.302	1.21	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Aluminum	2710	MG_KG		12800		100000	7700	Y					2.6	10.4	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Antimony	0.416	MG_KG	UN	1.87	0.9	47	3.1						0.26	0.52	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Arsenic	0.738	MG_KG		1.17	5.8	3	0.67	Y					0.156	0.52	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Barium	10.1	MG_KG		36.7	580	22000	1500	Y					0.26	2.08	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Beryllium	0.0695	MG_KG	Y, J	0.195	63	230	16	Y					0.052	0.26	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Cadmium	0.104	MG_KG	U	0.2	3	98	7						0.052	0.26	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Calcium	421	MG_KG		8470				Y					52	260	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Chromium	2.49	MG_KG		17.4	3.8	6.3	0.3	Y					0.104	0.52	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Cobalt	0.52	MG_KG	U	0.414	0.9	35	2.3						0.26	0.651	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Copper	4.05	MG_KG		17.1	700	4700	310	Y					0.208	0.52	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Iron	1240	MG_KG		7210	150	82000	5500	Y					1.56	5.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Lead	5.65	MG_KG		27.5	270	800	400	Y					0.0781	0.156	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Magnesium	78.7	MG_KG	J	904				Y					52	260	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Manganese	7.12	MG_KG	N	37	65	2600	180	Y					0.156	0.781	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Mercury	0.0178	MG_KG	J	0.161	1	35	2.3	Y					0.0136	0.0346	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Nickel	0.728	MG_KG		3.11	130	2200	150	Y					0.156	0.52	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Perchlorate	2.17	UG_KG	U			82000	5500						0.65	5.41	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Potassium	83.5	MG_KG	J	359				Y					52	260	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Selenium	0.188	MG_KG	J	1.59	1.5	580	39	Y					0.156	0.52	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Silver	0.104	MG_KG	U	0.354	3.4	580	39						0.052	0.52	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Sodium	156	MG_KG	U	250									52	260	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Thallium	0.208	MG_KG	U		0.28	1.2	0.078						0.156	0.416	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Vanadium	3.31	MG_KG		17.6	6	580	39	Y					0.26	0.651	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS102-IC-11B	N	Zinc	15.2	MG_KG		28.6	1200	35000	2300	Y					0.26	1.04	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Aluminum	3350	MG_KG		12800		100000	7700	Y					2.71	10.8	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Antimony	0.434	MG_KG	UN	1.87	0.9	47	3.1						0.271	0.542	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Arsenic	0.997	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.542	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Barium	11.6	MG_KG		36.7	580	22000	1500	Y					0.271	2.17	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Beryllium	0.0784	MG_KG	Y, J	0.195	63	230	16	Y					0.0542	0.271	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Cadmium	0.0596	MG_KG	J	0.2	3	98	7	Y					0.0542	0.271	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Calcium	709	MG_KG		8470				Y					54.2	271	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Chromium	3.56	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.542	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Cobalt	0.542	MG_KG	U	0.414	0.9	35	2.3						0.271	0.678	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Copper	4.6	MG_KG		17.1	700	4700	310	Y					0.217	0.542	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Iron	1380	MG_KG		7210	150	82000	5500	Y					1.63	5.42	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Lead	6.65	MG_KG		27.5	270	800	400	Y					0.0814	0.163	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Magnesium	115	MG_KG	J	904				Y					54.2	271	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Manganese	17.4	MG_KG		37	65	2600	180	Y					0.163	0.814	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Mercury	0.0194	MG_KG	J	0.161	1	35	2.3	Y					0.0143	0.0363	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Nickel	0.97	MG_KG		3.11	130	2200	150	Y					0.163	0.542	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Perchlorate	1.47	UG_KG	J			82000	5500	Y					0.661	5.51	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Potassium	133	MG_KG	J	359				Y					54.2	271	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Selenium	0.232	MG_KG	J	1.59	1.5	580	39	Y					0.163	0.542	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.0542	0.542	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Sodium	163	MG_KG	U	250									54.2	271	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Thallium	0.217	MG_KG	U		0.28	1.2	0.078						0.163	0.434	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Vanadium	4.26	MG_KG		17.6	6	580	39	Y					0.271	0.678	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS103-IC-11B	N	Zinc	19.9	MG_KG		28.6	1200	35000	2300	Y					0.271	1.08	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Aluminum	7940	MG_KG		12800		100000	7700	Y					2.74	11	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Antimony	0.438	MG_KG	UN	1.87	0.9	47	3.1						0.274	0.548	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Arsenic	1.1	MG_KG		1.17	5.8	3	0.67	Y					0.164	0.548	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Barium	21.1	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Beryllium	0.149	MG_KG	Y, J	0.195	63	230	16	Y					0.0548	0.274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0548	0.274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Calcium	292	MG_KG		8470				Y					54.8	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Chromium	6.98	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.548	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Cobalt	0.407	MG_KG	J	0.414	0.9	35	2.3	Y					0.274	0.685	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Copper	3.15	MG_KG		17.1	700	4700	310	Y					0.219	0.548	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Iron	4610	MG_KG		7210	150	82000	5500	Y					1.64	5.48	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Lead	7.38	MG_KG		27.5	270	800	400	Y					0.0822	0.164	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Magnesium	238	MG_KG	J	904				Y					54.8	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Manganese	8.18	MG_KG	N	37	65	2600	180	Y					0.164	0.822	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Mercury	0.0332	MG_KG	U	0.161	1	35	2.3						0.0131	0.0332	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Nickel	1.47	MG_KG		3.11	130	2200	150	Y					0.164	0.548	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Perchlorate	5.09	UG_KG	J			82000	5500	Y					0.684	5.7	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Potassium	214	MG_KG	J	359				Y					54.8	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Selenium	0.188	MG_KG	J	1.59	1.5	580	39	Y					0.164	0.548	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Silver	0.11	MG_KG	M, U	0.354	3.4	580	39						0.11	0.548	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Sodium	164	MG_KG	U	250									54.8	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Thallium	0.219	MG_KG	M, U		0.28	1.2	0.078						0.219	0.438	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Vanadium	10.5	MG_KG		17.6	6	580	39	Y					0.274	0.685	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS104-IC-11B	N	Zinc	11.8	MG_KG		28.6	1200	35000	2300	Y					0.274	1.1	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Aluminum	3900	MG_KG		12800		100000	7700	Y					2.8	11.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Antimony	0.448	MG_KG	UN	1.87	0.9	47	3.1						0.28	0.56	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Arsenic	0.843	MG_KG		1.17	5.8	3	0.67	Y					0.168	0.56	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Barium	15.7	MG_KG		36.7	580	22000	1500	Y					0.28	2.24	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Beryllium	0.113	MG_KG	Y, J	0.195	63	230	16	Y					0.056	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Cadmium	0.0571	MG_KG	J	0.2	3	98	7	Y					0.056	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Calcium	310	MG_KG		8470				Y					56	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Chromium	3.67	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.56	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Cobalt	0.56	MG_KG	Y, U	0.414	0.9	35	2.3						0.28	0.7	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Copper	6.54	MG_KG		17.1	700	4700	310	Y					0.224	0.56	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Iron	3580	MG_KG		7210	150	82000	5500	Y					1.68	5.6	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Lead	9.61	MG_KG		27.5	270	800	400	Y					0.084	0.168	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Magnesium	126	MG_KG	J	904				Y					56	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Manganese	10.7	MG_KG	N	37	65	2600	180	Y					0.168	0.84	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Mercury	0.0375	MG_KG	U	0.161	1	35	2.3						0.0148	0.0375	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Nickel	1.05	MG_KG		3.11	130	2200	150	Y					0.168	0.56	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Nitroglycerin	1020	UG_KG				8200	620	Y				Y	238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Perchlorate	2.19	UG_KG	U			82000	5500						0.658	5.49	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Potassium	130	MG_KG	J	359				Y					56	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Selenium	0.28	MG_KG	U	1.59	1.5	580	39						0.168	0.56	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.056	0.56	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Sodium	168	MG_KG	U	250									56	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Thallium	0.224	MG_KG	Y, U		0.28	1.2	0.078						0.168	0.448	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Vanadium	5.73	MG_KG		17.6	6	580	39	Y					0.28	0.7	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS104-OC-11B	N	Zinc	18.9	MG_KG		28.6	1200	35000	2300	Y					0.28	1.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	2,4,6-Trinitrotoluene	168	UG_KG	JP			52000	3600	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	2-Amino-4,6-dinitrotoluene	309	UG_KG	J			230000	15000	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	4-Amino-2,6-dinitrotoluene	447	UG_KG				230000	15000	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Aluminum	4900	MG_KG		12800		100000	7700	Y					2.8	11.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Antimony	0.449	MG_KG	UN	1.87	0.9	47	3.1						0.28	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.168	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Barium	21.5	MG_KG		36.7	580	22000	1500	Y					0.28	2.24	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Beryllium	0.166	MG_KG	Y, J	0.195	63	230	16	Y					0.0561	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0561	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Calcium	343	MG_KG		8470				Y					56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Chromium	3.02	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.561	04/06/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Cobalt	0.292	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.28	0.701	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Copper	2.11	MG_KG		17.1	700	4700	310	Y					0.224	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Iron	1750	MG_KG		7210	150	82000	5500	Y					1.68	5.61	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Lead	6.52	MG_KG		27.5	270	800	400	Y					0.0841	0.168	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Magnesium	126	MG_KG	J	904				Y					56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Manganese	12.2	MG_KG	N	37	65	2600	180	Y					0.168	0.841	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Mercury	0.0214	MG_KG	J	0.161	1	35	2.3	Y					0.0124	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Nickel	1.35	MG_KG		3.11	130	2200	150	Y					0.168	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Perchlorate	2.34	UG_KG	N, U			82000	5500						0.703	5.86	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Potassium	114	MG_KG	J	359				Y					56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Selenium	0.28	MG_KG	U	1.59	1.5	580	39						0.168	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Silver	0.112	MG_KG	M, U	0.354	3.4	580	39						0.112	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Sodium	168	MG_KG	U	250									56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Thallium	0.224	MG_KG	M, Y, U		0.28	1.2	0.078						0.224	0.449	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Vanadium	4.37	MG_KG		17.6	6	580	39	Y					0.28	0.701	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS105-IC-11B	N	Zinc	14.1	MG_KG		28.6	1200	35000	2300	Y					0.28	1.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	2,4,6-Trinitrotoluene	206	UG_KG	J			52000	3600	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	2-Amino-4,6-dinitrotoluene	122	UG_KG	J			230000	15000	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	4-Amino-2,6-dinitrotoluene	191	UG_KG	J			230000	15000	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Aluminum	6160	MG_KG		12800		100000	7700	Y					2.96	11.8	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Antimony	0.473	MG_KG	UN	1.87	0.9	47	3.1						0.296	0.591	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Arsenic	2.34	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.177	0.591	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Barium	28	MG_KG		36.7	580	22000	1500	Y					0.296	2.37	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Beryllium	0.207	MG_KG	Y, J	0.195	63	230	16	Y	Y				0.0591	0.296	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Cadmium	0.233	MG_KG	J	0.2	3	98	7	Y	Y				0.0591	0.296	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Calcium	347	MG_KG		8470				Y					59.1	296	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Chromium	4.71	MG_KG		17.4	3.8	6.3	0.3	Y					0.118	0.591	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Cobalt	0.36	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.296	0.739	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Copper	15.6	MG_KG		17.1	700	4700	310	Y					0.237	0.591	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Iron	2350	MG_KG		7210	150	82000	5500	Y					1.77	5.91	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Lead	8.77	MG_KG		27.5	270	800	400	Y					0.0887	0.177	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Magnesium	157	MG_KG	J	904				Y					59.1	296	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Manganese	26.2	MG_KG	N	37	65	2600	180	Y					0.177	0.887	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Mercury	0.0221	MG_KG	J	0.161	1	35	2.3	Y					0.0145	0.0368	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Nickel	1.72	MG_KG		3.11	130	2200	150	Y					0.177	0.591	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Perchlorate	2.31	UG_KG	U			82000	5500						0.692	5.76	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Potassium	143	MG_KG	J	359				Y					59.1	296	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Selenium	0.296	MG_KG	U	1.59	1.5	580	39						0.177	0.591	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Silver	0.118	MG_KG	M, U	0.354	3.4	580	39						0.118	0.591	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Sodium	177	MG_KG	U	250									59.1	296	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Thallium	0.237	MG_KG	M, Y, U		0.28	1.2	0.078						0.237	0.473	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Vanadium	5.54	MG_KG		17.6	6	580	39	Y					0.296	0.739	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS105-OC-11B	N	Zinc	36.8	MG_KG		28.6	1200	35000	2300	Y	Y				0.296	1.18	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Aluminum	3320	MG_KG		12800		100000	7700	Y					2.74	11	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Antimony	0.439	MG_KG	UN	1.87	0.9	47	3.1						0.274	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Arsenic	4.63	MG_KG		1.17	5.8	3	0.67	Y	Y		Y	Y	0.165	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Barium	10.2	MG_KG		36.7	580	22000	1500	Y					0.274	2.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Beryllium	0.0839	MG_KG	Y, J	0.195	63	230	16	Y					0.0549	0.274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0549	0.274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Calcium	341	MG_KG		8470				Y					54.9	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Chromium	3.98	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Cobalt	0.549	MG_KG	Y, U	0.414	0.9	35	2.3						0.274	0.686	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Copper	3.6	MG_KG		17.1	700	4700	310	Y					0.22	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Iron	1150	MG_KG		7210	150	82000	5500	Y					1.65	5.49	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Lead	4.95	MG_KG		27.5	270	800	400	Y					0.0823	0.165	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Magnesium	77	MG_KG	J	904				Y					54.9	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Manganese	6.45	MG_KG	N	37	65	2600	180	Y					0.165	0.823	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Mercury	0.0227	MG_KG	J	0.161	1	35	2.3	Y					0.013	0.0331	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Nickel	0.873	MG_KG		3.11	130	2200	150	Y					0.165	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Nitroglycerin	417	UG_KG	U			8200	620						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Perchlorate	2.21	UG_KG	U			82000	5500						0.662	5.52	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	PETN	417	UG_KG	U			160000	12000						208	833	04/06/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Potassium	81.4	MG_KG	J	359				Y					54.9	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	RDX	167	UG_KG	U			28000	6000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Selenium	0.21	MG_KG	J	1.59	1.5	580	39	Y					0.165	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.0549	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Sodium	165	MG_KG	U	250									54.9	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Tetryl	167	UG_KG	U			160000	12000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Thallium	0.22	MG_KG	Y, U		0.28	1.2	0.078						0.165	0.439	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Vanadium	3.36	MG_KG		17.6	6	580	39	Y					0.274	0.686	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106D-IC-11B	FD	Zinc	11.3	MG_KG		28.6	1200	35000	2300	Y					0.274	1.1	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Aluminum	4000	MG_KG		12800		100000	7700	Y					2.77	11.1	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Antimony	0.443	MG_KG	UN	1.87	0.9	47	3.1						0.277	0.554	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Arsenic	1.32	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.166	0.554	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Barium	17.9	MG_KG		36.7	580	22000	1500	Y					0.277	2.22	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Beryllium	0.117	MG_KG	Y, J	0.195	63	230	16	Y					0.0554	0.277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0554	0.277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Calcium	340	MG_KG		8470				Y					55.4	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Chromium	3.1	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.554	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Cobalt	0.554	MG_KG	Y, U	0.414	0.9	35	2.3						0.277	0.692	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Copper	3.04	MG_KG		17.1	700	4700	310	Y					0.222	0.554	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Iron	1690	MG_KG		7210	150	82000	5500	Y					1.66	5.54	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Lead	6.3	MG_KG		27.5	270	800	400	Y					0.0831	0.166	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Magnesium	96.7	MG_KG	J	904				Y					55.4	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Manganese	10.2	MG_KG	N	37	65	2600	180	Y					0.166	0.831	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Mercury	0.0181	MG_KG	J	0.161	1	35	2.3	Y					0.0114	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Nickel	1.02	MG_KG		3.11	130	2200	150	Y					0.166	0.554	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Perchlorate	2.22	UG_KG	U			82000	5500						0.665	5.54	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Potassium	105	MG_KG	J	359				Y					55.4	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Selenium	0.201	MG_KG	J	1.59	1.5	580	39	Y					0.166	0.554	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0554	0.554	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Sodium	166	MG_KG	U	250									55.4	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Thallium	0.222	MG_KG	Y, U		0.28	1.2	0.078						0.166	0.443	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Vanadium	3.92	MG_KG		17.6	6	580	39	Y					0.277	0.692	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS106-IC-11B	N	Zinc	12.4	MG_KG		28.6	1200	35000	2300	Y					0.277	1.11	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Aluminum	2800	MG_KG		12800		100000	7700	Y					2.62	10.5	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Antimony	0.419	MG_KG	UN	1.87	0.9	47	3.1						0.262	0.524	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Arsenic	1.19	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.157	0.524	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Barium	8.76	MG_KG		36.7	580	22000	1500	Y					0.262	2.09	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Beryllium	0.0712	MG_KG	Y, J	0.195	63	230	16	Y					0.0524	0.262	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Cadmium	0.105	MG_KG	U	0.2	3	98	7						0.0524	0.262	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Calcium	440	MG_KG		8470				Y					52.4	262	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Chromium	2.88	MG_KG		17.4	3.8	6.3	0.3	Y					0.105	0.524	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Cobalt	0.524	MG_KG	Y, U	0.414	0.9	35	2.3						0.262	0.655	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Copper	4.36	MG_KG		17.1	700	4700	310	Y					0.209	0.524	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Iron	1030	MG_KG		7210	150	82000	5500	Y					1.57	5.24	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Lead	4.56	MG_KG		27.5	270	800	400	Y					0.0786	0.157	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Magnesium	77	MG_KG	J	904				Y					52.4	262	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Manganese	7.23	MG_KG	N	37	65	2600	180	Y					0.157	0.786	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Mercury	0.019	MG_KG	J	0.161	1	35	2.3	Y					0.0147	0.0374	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Nickel	0.738	MG_KG		3.11	130	2200	150	Y					0.157	0.524	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Perchlorate	2.19	UG_KG	U			82000	5500						0.657	5.47	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	PETN	435	UG_KG	U			160000	12000						217	870	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Potassium	81.6	MG_KG	J	359				Y					52.4	262	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Selenium	0.182	MG_KG	J	1.59	1.5	580	39	Y					0.157	0.524	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Silver	0.105	MG_KG	U	0.354	3.4	580	39						0.0524	0.524	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Sodium	157	MG_KG	U	250									52.4	262	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Tetryl	174	UG_KG	U			160000	12000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Thallium	0.209	MG_KG	Y, U		0.28	1.2	0.078						0.157	0.419	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Vanadium	2.89	MG_KG		17.6	6	580	39	Y					0.262	0.655	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS106-OC-11B	N	Zinc	16.5	MG_KG		28.6	1200	35000	2300	Y					0.262	1.05	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	04/06/11	SVOA	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Aluminum	6840	MG_KG		12800		100000	7700	Y					2.91	11.7	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Antimony	0.466	MG_KG	UN	1.87	0.9	47	3.1						0.291	0.583	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Arsenic	1.72	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.175	0.583	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Barium	45.1	MG_KG		36.7	580	22000	1500	Y	Y				0.291	2.33	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Beryllium	0.229	MG_KG	Y, J	0.195	63	230	16	Y	Y				0.0583	0.291	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0583	0.291	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Calcium	359	MG_KG		8470				Y					58.3	291	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Chromium	4.73	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.583	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Cobalt	0.457	MG_KG	Y, J	0.414	0.9	35	2.3	Y	Y				0.291	0.729	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Copper	3.19	MG_KG		17.1	700	4700	310	Y					0.233	0.583	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Iron	2300	MG_KG		7210	150	82000	5500	Y					1.75	5.83	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Lead	8.39	MG_KG		27.5	270	800	400	Y					0.0874	0.175	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Magnesium	188	MG_KG	J	904				Y					58.3	291	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Manganese	43.6	MG_KG	N	37	65	2600	180	Y	Y				0.175	0.874	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Mercury	0.0351	MG_KG		0.161	1	35	2.3	Y					0.0133	0.0338	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Nickel	1.88	MG_KG		3.11	130	2200	150	Y					0.175	0.583	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Perchlorate	2.39	UG_KG	U			82000	5500						0.717	5.98	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Potassium	176	MG_KG	J	359				Y					58.3	291	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Selenium	0.187	MG_KG	J	1.59	1.5	580	39	Y					0.175	0.583	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0583	0.583	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Sodium	175	MG_KG	U	250									58.3	291	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Thallium	0.233	MG_KG	Y, U		0.28	1.2	0.078						0.175	0.466	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Vanadium	6.4	MG_KG		17.6	6	580	39	Y					0.291	0.729	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS107-IC-11B	N	Zinc	20.1	MG_KG		28.6	1200	35000	2300	Y					0.291	1.17	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Aluminum	7190	MG_KG		12800		100000	7700	Y					2.8	11.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Antimony	0.448	MG_KG	UN	1.87	0.9	47	3.1						0.28	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Arsenic	2.1	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.168	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Barium	38.9	MG_KG		36.7	580	22000	1500	Y	Y				0.28	2.24	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Beryllium	0.177	MG_KG	Y, J	0.195	63	230	16	Y					0.0559	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Cadmium	0.0767	MG_KG	J	0.2	3	98	7	Y					0.0559	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Calcium	1150	MG_KG		8470				Y					55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Chromium	6.1	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Cobalt	0.53	MG_KG	Y, J	0.414	0.9	35	2.3	Y	Y				0.28	0.699	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Copper	4.27	MG_KG		17.1	700	4700	310	Y					0.224	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Iron	2640	MG_KG		7210	150	82000	5500	Y					1.68	5.59	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Lead	6.89	MG_KG		27.5	270	800	400	Y					0.0839	0.168	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Magnesium	219	MG_KG	J	904				Y					55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Manganese	36.4	MG_KG	N	37	65	2600	180	Y					0.168	0.839	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Mercury	0.0235	MG_KG	J	0.161	1	35	2.3	Y					0.0134	0.034	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Nickel	2.07	MG_KG		3.11	130	2200	150	Y					0.168	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Perchlorate	2.34	UG_KG	U			82000	5500						0.702	5.85	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Potassium	241	MG_KG	J	359				Y					55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Selenium	0.279	MG_KG	J	1.59	1.5	580	39	Y					0.168	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0559	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Sodium	168	MG_KG	U	250									55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Thallium	0.224	MG_KG	Y, U		0.28	1.2	0.078						0.168	0.448	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Vanadium	7.86	MG_KG		17.6	6	580	39	Y					0.28	0.699	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS107-OC-11B	N	Zinc	47.4	MG_KG		28.6	1200	35000	2300	Y	Y				0.28	1.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	2,4,6-Trinitrotoluene	146	UG_KG	J			52000	3600	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Aluminum	4660	MG_KG		12800		100000	7700	Y					2.84	11.3	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Antimony	0.454	MG_KG	UN	1.87	0.9	47	3.1						0.284	0.567	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Arsenic	0.944	MG_KG		1.17	5.8	3	0.67	Y					0.17	0.567	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Barium	18.4	MG_KG		36.7	580	22000	1500	Y					0.284	2.27	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Beryllium	0.133	MG_KG	Y, J	0.195	63	230	16	Y					0.0567	0.284	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Cadmium	0.0935	MG_KG	J	0.2	3	98	7	Y					0.0567	0.284	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Calcium	239	MG_KG	J	8470				Y					56.7	284	04/06/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Chromium	3.69	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.567	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Cobalt	0.567	MG_KG	Y, U	0.414	0.9	35	2.3						0.284	0.709	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Copper	15.7	MG_KG		17.1	700	4700	310	Y					0.227	0.567	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Iron	2260	MG_KG		7210	150	82000	5500	Y					1.7	5.67	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Lead	7.78	MG_KG		27.5	270	800	400	Y					0.0851	0.17	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Magnesium	149	MG_KG	J	904				Y					56.7	284	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Manganese	19.7	MG_KG	N	37	65	2600	180	Y					0.17	0.851	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Mercury	0.021	MG_KG	J	0.161	1	35	2.3	Y					0.0135	0.0344	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Nickel	1.26	MG_KG		3.11	130	2200	150	Y					0.17	0.567	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.687	5.73	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Potassium	145	MG_KG	J	359				Y					56.7	284	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Selenium	0.184	MG_KG	J	1.59	1.5	580	39	Y					0.17	0.567	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0567	0.567	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Sodium	170	MG_KG	U	250									56.7	284	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Thallium	0.227	MG_KG	Y, U		0.28	1.2	0.078						0.17	0.454	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Vanadium	5.28	MG_KG		17.6	6	580	39	Y					0.284	0.709	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS108-IC-11B	N	Zinc	33.7	MG_KG		28.6	1200	35000	2300	Y	Y				0.284	1.13	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Aluminum	5520	MG_KG		12800		100000	7700	Y					2.69	10.8	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Antimony	0.43	MG_KG	UN	1.87	0.9	47	3.1						0.269	0.538	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.161	0.538	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Barium	19	MG_KG		36.7	580	22000	1500	Y					0.269	2.15	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Beryllium	0.148	MG_KG	Y, J	0.195	63	230	16	Y					0.0538	0.269	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Cadmium	0.0901	MG_KG	J	0.2	3	98	7	Y					0.0538	0.269	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Calcium	245	MG_KG	J	8470				Y					53.8	269	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Chromium	4.53	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.538	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Cobalt	0.294	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.269	0.672	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Copper	7.75	MG_KG		17.1	700	4700	310	Y					0.215	0.538	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	HMX	160	UG_KG	U			5700000	380000						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Iron	2970	MG_KG		7210	150	82000	5500	Y					1.61	5.38	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Lead	8.48	MG_KG		27.5	270	800	400	Y					0.0807	0.161	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Magnesium	174	MG_KG	J	904				Y					53.8	269	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Manganese	13.4	MG_KG	N	37	65	2600	180	Y					0.161	0.807	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Mercury	0.0206	MG_KG	J	0.161	1	35	2.3	Y					0.0125	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Nickel	1.4	MG_KG		3.11	130	2200	150	Y					0.161	0.538	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Perchlorate	1.4	UG_KG	J			82000	5500	Y					0.636	5.3	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	PETN	400	UG_KG	U			160000	12000						200	800	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Potassium	169	MG_KG	J	359				Y					53.8	269	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	RDX	160	UG_KG	U			28000	6000						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Selenium	0.172	MG_KG	J	1.59	1.5	580	39	Y					0.161	0.538	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.0538	0.538	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Sodium	161	MG_KG	U	250									53.8	269	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Tetryl	160	UG_KG	U			160000	12000						80	320	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Thallium	0.215	MG_KG	Y, U		0.28	1.2	0.078						0.161	0.43	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Vanadium	6.88	MG_KG		17.6	6	580	39	Y					0.269	0.672	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS108-OC-11B	N	Zinc	19.6	MG_KG		28.6	1200	35000	2300	Y					0.269	1.08	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	1,3,5-Trinitrobenzene	190	UG_KG	X, U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	1,3-Dinitrobenzene	190	UG_KG	X, U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	2,4,6-Trinitrotoluene	2700	UG_KG				52000	3600	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	2,6-Dinitrotoluene	190	UG_KG	X, U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	2-Amino-4,6-dinitrotoluene	872	UG_KG	X			230000	15000	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	4-Amino-2,6-dinitrotoluene	1210	UG_KG				230000	15000	Y					95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	4-Nitrotoluene	190	UG_KG	X, U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Aluminum	9970	MG_KG		12800		100000	7700	Y					2.82	11.3	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Antimony	0.452	MG_KG	YUN	1.87	0.9	47	3.1						0.282	0.565	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Arsenic	1.35	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.169	0.565	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Barium	31.7	MG_KG		36.7	580	22000	1500	Y					0.282	2.26	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Beryllium	0.21	MG_KG	Y, J	0.195	63	230	16	Y	Y				0.0565	0.282	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Cadmium	0.113	MG_KG	Y, U	0.2	3	98	7						0.0565	0.282	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Calcium	465	MG_KG	N	8470				Y					56.5	282	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Chromium	7.82	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.565	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Cobalt	0.397	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.282	0.706	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Copper	1.85	MG_KG		17.1	700	4700	310	Y					0.226	0.565	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Iron	4250	MG_KG		7210	150	82000	5500	Y					1.69	5.65	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Lead	5.49	MG_KG	Y	27.5	270	800	400						0.0847	0.169	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Magnesium	311	MG_KG	Y	904									56.5	282	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Manganese	10.5	MG_KG		37	65	2600	180	Y					0.169	0.847	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Mercury	0.0154	MG_KG	JN	0.161	1	35	2.3	Y					0.0122	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Nickel	1.65	MG_KG		3.11	130	2200	150	Y					0.169	0.565	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Perchlorate	1.18	UG_KG	J			82000	5500	Y					0.695	5.79	04/06/11	EXPLO	6850	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	PETN	476	UG_KG	X, U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Potassium	259	MG_KG	JN	359				Y					56.5	282	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Selenium	0.221	MG_KG	J	1.59	1.5	580	39	Y					0.169	0.565	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0565	0.565	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Sodium	169	MG_KG	U	250									56.5	282	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Tetryl	190	UG_KG	X, U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Thallium	0.226	MG_KG	YUN		0.28	1.2	0.078						0.169	0.452	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Vanadium	11	MG_KG		17.6	6	580	39	Y					0.282	0.706	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109D-IC-11B	FD	Zinc	13.3	MG_KG		28.6	1200	35000	2300	Y					0.282	1.13	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	X, U			3200000	220000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	1,3-Dinitrobenzene	182	UG_KG	X, U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	2,4,6-Trinitrotoluene	1680	UG_KG				52000	3600	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	2,6-Dinitrotoluene	182	UG_KG	X, U			3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	2-Amino-4,6-dinitrotoluene	749	UG_KG	X			230000	15000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	4-Amino-2,6-dinitrotoluene	1040	UG_KG				230000	15000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	4-Nitrotoluene	182	UG_KG	X, U			140000	25000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Aluminum	11500	MG_KG		12800		100000	7700	Y					2.8	11.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Antimony	0.449	MG_KG	YUN	1.87	0.9	47	3.1						0.28	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Arsenic	1.75	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.168	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Barium	40.5	MG_KG		36.7	580	22000	1500	Y	Y				0.28	2.24	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Beryllium	0.278	MG_KG	Y, J	0.195	63	230	16	Y	Y				0.0561	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Cadmium	0.112	MG_KG	Y, U	0.2	3	98	7						0.0561	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Calcium	468	MG_KG	N	8470				Y					56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Chromium	7.83	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Cobalt	0.451	MG_KG	Y, J	0.414	0.9	35	2.3	Y	Y				0.28	0.701	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Copper	1.49	MG_KG		17.1	700	4700	310	Y					0.224	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Iron	4740	MG_KG		7210	150	82000	5500	Y					1.68	5.61	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Lead	7.42	MG_KG	Y	27.5	270	800	400						0.0841	0.168	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Magnesium	327	MG_KG	Y	904									56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Manganese	9.08	MG_KG		37	65	2600	180	Y					0.168	0.841	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Mercury	0.0152	MG_KG	JN	0.161	1	35	2.3	Y					0.0132	0.0335	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Nickel	1.98	MG_KG		3.11	130	2200	150	Y					0.168	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Perchlorate	1.19	UG_KG	J			82000	5500	Y					0.69	5.75	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	PETN	455	UG_KG	X, U			160000	12000						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Potassium	244	MG_KG	JN	359				Y					56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Selenium	0.28	MG_KG	U	1.59	1.5	580	39						0.168	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Silver	0.112	MG_KG	M, U	0.354	3.4	580	39						0.112	0.561	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Sodium	168	MG_KG	U	250									56.1	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Tetryl	182	UG_KG	UX			160000	12000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Thallium	0.224	MG_KG	YUN		0.28	1.2	0.078						0.168	0.449	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Vanadium	12.3	MG_KG		17.6	6	580	39	Y					0.28	0.701	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS109-IC-11B	N	Zinc	9.69	MG_KG		28.6	1200	35000	2300	Y					0.28	1.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	X, U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	X, U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	X, U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	X, U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	4-Nitrotoluene	190	UG_KG	X, U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Aluminum	5530	MG_KG		12800		100000	7700	Y					2.89	11.6	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Antimony	0.462	MG_KG	YUN	1.87	0.9	47	3.1						0.289	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Arsenic	0.882	MG_KG		1.17	5.8	3	0.67	Y					0.173	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Barium	24.5	MG_KG		36.7	580	22000	1500	Y					0.289	2.31	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Beryllium	0.15	MG_KG	Y, J	0.195	63	230	16	Y					0.0578	0.289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Cadmium	0.116	MG_KG	Y, U	0.2	3	98	7						0.0578	0.289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Calcium	563	MG_KG	N	8470				Y					57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Chromium	4.11	MG_KG		17.4	3.8	6.3	0.3	Y					0.116	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Cobalt	0.578	MG_KG	Y, U	0.414	0.9	35	2.3						0.289	0.723	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Copper	7.08	MG_KG		17.1	700	4700	310	Y					0.231	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Iron	2390	MG_KG		7210	150	82000	5500	Y					1.73	5.78	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Lead	6.11	MG_KG	Y	27.5	270	800	400						0.0867	0.173	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Magnesium	189	MG_KG	Y, J	904				Y					57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Manganese	17.8	MG_KG		37	65	2600	180	Y					0.173	0.867	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Mercury	0.019	MG_KG	JN	0.161	1	35	2.3	Y					0.013	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Nickel	1.19	MG_KG		3.11	130	2200	150	Y					0.173	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Perchlorate	1.25	UG_KG	J			82000	5500	Y					0.718	5.98	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	PETN	476	UG_KG	X, U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Potassium	168	MG_KG	JN	359				Y					57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Selenium	0.196	MG_KG	J	1.59	1.5	580	39	Y					0.173	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.0578	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Sodium	173	MG_KG	U	250									57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Tetryl	190	UG_KG	UX			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Thallium	0.231	MG_KG	YUN		0.28	1.2	0.078						0.173	0.462	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Vanadium	6.45	MG_KG		17.6	6	580	39	Y					0.289	0.723	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS109-OC-11B	N	Zinc	76.1	MG_KG		28.6	1200	35000	2300	Y	Y				0.289	1.16	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	1,3,5-Trinitrobenzene	190	UG_KG	X, U			3200000	220000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	1,3-Dinitrobenzene	190	UG_KG	X, U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/06/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	2,6-Dinitrotoluene	190	UG_KG	X, U			3400	780						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	2-Amino-4,6-dinitrotoluene	190	UG_KG	X, U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	4-Nitrotoluene	190	UG_KG	X, U			140000	25000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Aluminum	3820	MG_KG		12800		100000	7700	Y					2.77	11.1	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Antimony	0.444	MG_KG	YUN	1.87	0.9	47	3.1						0.277	0.555	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Arsenic	1.2	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.166	0.555	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Barium	14.7	MG_KG		36.7	580	22000	1500	Y					0.277	2.22	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Beryllium	0.109	MG_KG	Y, J	0.195	63	230	16	Y					0.0555	0.277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Cadmium	0.0585	MG_KG	Y, J	0.2	3	98	7	Y					0.0555	0.277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Calcium	1110	MG_KG	N	8470				Y					55.5	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Chromium	4.13	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.555	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Cobalt	0.555	MG_KG	Y, U	0.414	0.9	35	2.3						0.277	0.693	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Copper	3.34	MG_KG		17.1	700	4700	310	Y					0.222	0.555	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Iron	1750	MG_KG		7210	150	82000	5500	Y					1.66	5.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Lead	4.81	MG_KG	Y	27.5	270	800	400						0.0832	0.166	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Magnesium	139	MG_KG	Y, J	904				Y					55.5	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Manganese	13.8	MG_KG		37	65	2600	180	Y					0.166	0.832	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Mercury	0.0142	MG_KG	JN	0.161	1	35	2.3	Y					0.0139	0.0354	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Nickel	1.16	MG_KG		3.11	130	2200	150	Y					0.166	0.555	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Perchlorate	10.1	UG_KG				82000	5500	Y					0.686	5.71	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	PETN	476	UG_KG	X, U			160000	12000						238	952	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Potassium	151	MG_KG	JN	359				Y					55.5	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	RDX	190	UG_KG	U			28000	6000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Selenium	0.172	MG_KG	J	1.59	1.5	580	39	Y					0.166	0.555	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0555	0.555	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Sodium	166	MG_KG	U	250									55.5	277	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Tetryl	190	UG_KG	X, U			160000	12000						95.2	381	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Thallium	0.222	MG_KG	YUN		0.28	1.2	0.078						0.166	0.444	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Vanadium	5.09	MG_KG		17.6	6	580	39	Y					0.277	0.693	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110D-OC-11B	FD	Zinc	30.1	MG_KG		28.6	1200	35000	2300	Y	Y				0.277	1.11	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	X, U			3200000	220000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	1,3-Dinitrobenzene	174	UG_KG	X, U			8200	620						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	2,6-Dinitrotoluene	174	UG_KG	X, U			3400	780						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	X, U			230000	15000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	4-Nitrotoluene	174	UG_KG	X, U			140000	25000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Aluminum	1660	MG_KG		12800		100000	7700	Y					2.57	10.3	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Antimony	0.411	MG_KG	YUN	1.87	0.9	47	3.1						0.257	0.513	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Arsenic	0.518	MG_KG		1.17	5.8	3	0.67	Y					0.154	0.513	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Barium	3.36	MG_KG		36.7	580	22000	1500	Y					0.257	2.05	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Beryllium	0.103	MG_KG	Y, U	0.195	63	230	16						0.0513	0.257	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Cadmium	0.103	MG_KG	Y, U	0.2	3	98	7						0.0513	0.257	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Calcium	81	MG_KG	JN	8470				Y					51.3	257	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Chromium	2.27	MG_KG		17.4	3.8	6.3	0.3	Y					0.103	0.513	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Cobalt	0.513	MG_KG	Y, U	0.414	0.9	35	2.3						0.257	0.642	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Copper	0.907	MG_KG		17.1	700	4700	310	Y					0.205	0.513	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Iron	1210	MG_KG		7210	150	82000	5500	Y					1.54	5.13	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Lead	0.869	MG_KG	Y	27.5	270	800	400						0.077	0.154	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Magnesium	154	MG_KG	Y, U	904									51.3	257	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Manganese	3.53	MG_KG		37	65	2600	180	Y					0.154	0.77	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Mercury	0.0305	MG_KG	UN	0.161	1	35	2.3						0.012	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Nickel	0.273	MG_KG	J	3.11	130	2200	150	Y					0.154	0.513	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Perchlorate	18.8	UG_KG				82000	5500	Y					0.61	5.08	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	PETN	435	UG_KG	X, U			160000	12000						217	870	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Potassium	154	MG_KG	UN	359									51.3	257	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Selenium	0.257	MG_KG	U	1.59	1.5	580	39						0.154	0.513	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Silver	0.103	MG_KG	U	0.354	3.4	580	39						0.0513	0.513	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Sodium	154	MG_KG	U	250									51.3	257	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Tetryl	174	UG_KG	X, U			160000	12000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Thallium	0.205	MG_KG	YUN		0.28	1.2	0.078						0.154	0.411	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Vanadium	3.75	MG_KG		17.6	6	580	39	Y					0.257	0.642	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS110-IC-11B	N	Zinc	4.32	MG_KG		28.6	1200	35000	2300	Y					0.257	1.03	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	1,3,5-Trinitrobenzene	148	UG_KG	X, U			3200000	220000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	1,3-Dinitrobenzene	148	UG_KG	X, U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	2,6-Dinitrotoluene	148	UG_KG	X, U			3400	780						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	X, U			230000	15000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	4-Nitrotoluene	148	UG_KG	X, U			140000	25000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Aluminum	3240	MG_KG		12800		100000	7700	Y					2.81	11.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Antimony	0.449	MG_KG	YUN	1.87	0.9	47	3.1						0.281	0.562	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Arsenic	1.12	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.562	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Barium	14.2	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Beryllium	0.0969	MG_KG	Y, J	0.195	63	230	16	Y					0.0562	0.281	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Cadmium	0.0635	MG_KG	Y, J	0.2	3	98	7	Y					0.0562	0.281	04/06/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Calcium	978	MG_KG	N	8470				Y					56.2	281	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Chromium	3.52	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.562	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Cobalt	0.562	MG_KG	Y, U	0.414	0.9	35	2.3						0.281	0.702	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Copper	2.99	MG_KG		17.1	700	4700	310	Y					0.225	0.562	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Iron	1490	MG_KG		7210	150	82000	5500	Y					1.69	5.62	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Lead	4.35	MG_KG	Y	27.5	270	800	400						0.0843	0.169	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Magnesium	130	MG_KG	Y, J	904				Y					56.2	281	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Manganese	14	MG_KG		37	65	2600	180	Y					0.169	0.843	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Mercury	0.0329	MG_KG	UN	0.161	1	35	2.3						0.013	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Nickel	0.973	MG_KG		3.11	130	2200	150	Y					0.169	0.562	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Perchlorate	9.7	UG_KG				82000	5500	Y					0.678	5.65	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	PETN	370	UG_KG	X, U			160000	12000						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Potassium	148	MG_KG	JN	359				Y					56.2	281	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	RDX	148	UG_KG	U			28000	6000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Selenium	0.224	MG_KG	J	1.59	1.5	580	39	Y					0.169	0.562	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0562	0.562	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Sodium	169	MG_KG	U	250									56.2	281	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Tetryl	148	UG_KG	X, U			160000	12000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Thallium	0.225	MG_KG	YUN		0.28	1.2	0.078						0.169	0.449	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Vanadium	4.34	MG_KG		17.6	6	580	39	Y					0.281	0.702	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS110-OC-11B	N	Zinc	26.3	MG_KG		28.6	1200	35000	2300	Y					0.281	1.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	X, U			3200000	220000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	1,3-Dinitrobenzene	174	UG_KG	X, U			8200	620						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	2,4,6-Trinitrotoluene	415000	UG_KG	D			52000	3600	Y			Y	Y	87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	2,4-Dinitrotoluene	571	UG_KG			1.6	3400	780	Y		Y			87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	2,6-Dinitrotoluene	174	UG_KG	X, U			3400	780						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	2-Amino-4,6-dinitrotoluene	1470	UG_KG	XP			230000	15000	Y					87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	4-Amino-2,6-dinitrotoluene	2050	UG_KG	P			230000	15000	Y					87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	4-Nitrotoluene	174	UG_KG	X, U			140000	25000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Aluminum	2260	MG_KG	D	12800		100000	7700	Y					5.3	21.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Antimony	0.424	MG_KG	YUN	1.87	0.9	47	3.1						0.265	0.53	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Arsenic	0.724	MG_KG		1.17	5.8	3	0.67	Y					0.159	0.53	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Barium	5	MG_KG		36.7	580	22000	1500	Y					0.265	2.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Beryllium	0.0771	MG_KG	Y, J	0.195	63	230	16	Y					0.053	0.265	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Cadmium	0.0966	MG_KG	Y, J	0.2	3	98	7	Y					0.053	0.265	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Calcium	36900	MG_KG	DN	8470				Y	Y				106	530	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Chromium	3.44	MG_KG		17.4	3.8	6.3	0.3	Y					0.106	0.53	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Cobalt	0.409	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.265	0.663	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Copper	4.98	MG_KG		17.1	700	4700	310	Y					0.212	0.53	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Iron	1680	MG_KG		7210	150	82000	5500	Y					1.59	5.3	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Lead	3.87	MG_KG	D	27.5	270	800	400	Y					0.159	0.318	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Magnesium	556	MG_KG	Y	904									53	265	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Manganese	38.7	MG_KG		37	65	2600	180	Y	Y				0.159	0.795	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Mercury	0.0277	MG_KG	UN	0.161	1	35	2.3						0.0109	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Nickel	2.11	MG_KG		3.11	130	2200	150	Y					0.159	0.53	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Perchlorate	0.681	UG_KG	J			82000	5500	Y					0.655	5.46	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	PETN	435	UG_KG	X, U			160000	12000						217	870	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Potassium	150	MG_KG	JN	359				Y					53	265	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Selenium	0.265	MG_KG	U	1.59	1.5	580	39						0.159	0.53	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Silver	0.106	MG_KG	M, U	0.354	3.4	580	39						0.106	0.53	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Sodium	53.9	MG_KG	J	250				Y					53	265	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Tetryl	4780	UG_KG	X			160000	12000	Y					87	348	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Thallium	0.212	MG_KG	YUN		0.28	1.2	0.078						0.159	0.424	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Vanadium	4.67	MG_KG		17.6	6	580	39	Y					0.265	0.663	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS111-IC-11B	N	Zinc	11	MG_KG	D	28.6	1200	35000	2300	Y					0.53	2.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	X, U			3200000	220000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	1,3-Dinitrobenzene	167	UG_KG	X, U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	2,6-Dinitrotoluene	167	UG_KG	X, U			3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	X, U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	4-Nitrotoluene	167	UG_KG	X, U			140000	25000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Aluminum	1830	MG_KG	D	12800		100000	7700	Y					13.2	52.9	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Antimony	0.671	MG_KG	YN	1.87	0.9	47	3.1						0.264	0.529	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Arsenic	2.61	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.159	0.529	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Barium	12.6	MG_KG		36.7	580	22000	1500	Y					0.264	2.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Beryllium	0.0646	MG_KG	Y, J	0.195	63	230	16	Y					0.0529	0.264	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Cadmium	2.09	MG_KG	Y	0.2	3	98	7						0.0529	0.264	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Calcium	100000	MG_KG	DN	8470				Y	Y				264	1320	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Chromium	16.6	MG_KG		17.4	3.8	6.3	0.3	Y					0.106	0.529	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Cobalt	3.72	MG_KG	Y	0.414	0.9	35	2.3						0.264	0.661	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Copper	6.69	MG_KG		17.1	700	4700	310	Y					0.212	0.529	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Iron	21400	MG_KG		7210	150	82000	5500	Y	Y	Y		Y	1.59	5.29	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Lead	7.72	MG_KG	D	27.5	270	800	400	Y					0.397	0.793	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Magnesium	1540	MG_KG	Y	904									52.9	264	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Manganese	408	MG_KG		37	65	2600	180	Y	Y	Y		Y	0.159	0.793	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Mercury	0.0348	MG_KG	UN	0.161	1	35	2.3						0.0137	0.0348	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Nickel	8.38	MG_KG		3.11	130	2200	150	Y	Y				0.159	0.529	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	04/06/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Perchlorate	1.28	UG_KG	J			82000	5500	Y					0.654	5.45	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	PETN	417	UG_KG	X, U			160000	12000						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Potassium	307	MG_KG	N	359				Y					52.9	264	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Selenium	0.883	MG_KG		1.59	1.5	580	39	Y					0.159	0.529	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Silver	0.106	MG_KG	U	0.354	3.4	580	39						0.0529	0.529	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Sodium	103	MG_KG	J	250				Y					52.9	264	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Tetryl	167	UG_KG	X, U			160000	12000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Thallium	0.212	MG_KG	YUN		0.28	1.2	0.078						0.159	0.423	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Vanadium	6.23	MG_KG		17.6	6	580	39	Y					0.264	0.661	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS111-OC-11B	N	Zinc	49.5	MG_KG	D	28.6	1200	35000	2300	Y	Y				1.32	5.29	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	X, U			3200000	220000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	1,3-Dinitrobenzene	167	UG_KG	X, U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	2,4,6-Trinitrotoluene	2420	UG_KG	N			52000	3600	Y					83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	2,6-Dinitrotoluene	167	UG_KG	X, U			3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	2-Amino-4,6-dinitrotoluene	196	UG_KG	JX			230000	15000	Y					83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	4-Amino-2,6-dinitrotoluene	333	UG_KG	J			230000	15000	Y					83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	4-Nitrotoluene	167	UG_KG	X, U			140000	25000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Aluminum	2000	MG_KG		12800		100000	7700	Y					2.58	10.3	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Antimony	0.413	MG_KG	YUN	1.87	0.9	47	3.1						0.258	0.516	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Arsenic	0.589	MG_KG		1.17	5.8	3	0.67	Y					0.155	0.516	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Barium	2.51	MG_KG		36.7	580	22000	1500	Y					0.258	2.07	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Beryllium	0.053	MG_KG	Y, J	0.195	63	230	16	Y					0.0516	0.258	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Cadmium	0.103	MG_KG	Y, U	0.2	3	98	7						0.0516	0.258	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Calcium	895	MG_KG	N	8470				Y					51.6	258	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Chromium	2.81	MG_KG		17.4	3.8	6.3	0.3	Y					0.103	0.516	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Cobalt	0.516	MG_KG	Y, U	0.414	0.9	35	2.3						0.258	0.645	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Copper	1.25	MG_KG		17.1	700	4700	310	Y					0.207	0.516	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Iron	1750	MG_KG		7210	150	82000	5500	Y					1.55	5.16	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Lead	0.694	MG_KG	Y	27.5	270	800	400						0.0774	0.155	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Magnesium	91.4	MG_KG	Y, J	904				Y					51.6	258	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Manganese	9.39	MG_KG		37	65	2600	180	Y					0.155	0.774	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Mercury	0.036	MG_KG	N, U	0.161	1	35	2.3						0.0142	0.036	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Nickel	0.552	MG_KG		3.11	130	2200	150	Y					0.155	0.516	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Nitroglycerin	417	UG_KG	N, U			8200	620						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Perchlorate	1.01	UG_KG	J			82000	5500	Y					0.61	5.09	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	PETN	417	UG_KG	X, U			160000	12000						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Potassium	155	MG_KG	UN	359									51.6	258	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Selenium	0.258	MG_KG	U	1.59	1.5	580	39						0.155	0.516	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Silver	0.103	MG_KG	U	0.354	3.4	580	39						0.0516	0.516	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Sodium	155	MG_KG	U	250									51.6	258	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Tetryl	119	UG_KG	JXP			160000	12000	Y					83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Thallium	0.207	MG_KG	YUN		0.28	1.2	0.078						0.155	0.413	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Vanadium	5.17	MG_KG		17.6	6	580	39	Y					0.258	0.645	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS112-IC-11B	N	Zinc	2.53	MG_KG		28.6	1200	35000	2300	Y					0.258	1.03	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Aluminum	3140	MG_KG	D	12800		100000	7700	Y					13.7	54.9	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Antimony	0.439	MG_KG	YUN	1.87	0.9	47	3.1						0.274	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Arsenic	2.98	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Barium	12.8	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Beryllium	0.111	MG_KG	Y, J	0.195	63	230	16	Y					0.0549	0.274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Cadmium	0.184	MG_KG	Y, J	0.2	3	98	7	Y					0.0549	0.274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Calcium	54400	MG_KG	DN	8470				Y	Y				274	1370	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Chromium	5.78	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Cobalt	0.853	MG_KG	Y	0.414	0.9	35	2.3						0.274	0.686	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Copper	6.92	MG_KG		17.1	700	4700	310	Y					0.219	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Iron	2810	MG_KG		7210	150	82000	5500	Y					1.65	5.49	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Lead	10.2	MG_KG	D	27.5	270	800	400	Y					0.411	0.823	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Magnesium	1380	MG_KG	Y	904									54.9	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Manganese	77.3	MG_KG		37	65	2600	180	Y	Y	Y			0.165	0.823	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Mercury	0.0365	MG_KG	UN	0.161	1	35	2.3						0.0144	0.0365	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Nickel	4.02	MG_KG		3.11	130	2200	150	Y	Y				0.165	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Perchlorate	25.8	UG_KG				82000	5500	Y					0.642	5.35	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	PETN	385	UG_KG	U			160000	12000						192	769	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Potassium	289	MG_KG	N	359				Y					54.9	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	RDX	154	UG_KG	U			28000	6000						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Selenium	0.274	MG_KG	U	1.59	1.5	580	39						0.165	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Silver	0.11	MG_KG	M, U	0.354	3.4	580	39						0.11	0.549	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Sodium	74.3	MG_KG	J	250				Y					54.9	274	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Thallium	0.219	MG_KG	YUN		0.28	1.2	0.078						0.165	0.439	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Vanadium	5.98	MG_KG		17.6	6	580	39	Y					0.274	0.686	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS112-OC-11B	N	Zinc	134	MG_KG	D	28.6	1200	35000	2300	Y	Y				1.37	5.49	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	1,3,5-Trinitrobenzene	903	UG_KG	JP			3200000	220000	Y					74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	2,4,6-Trinitrotoluene	1780000	UG_KG	D			52000	3600	Y			Y	Y	74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	2,4-Dinitrotoluene	1930	UG_KG	P		1.6	3400	780	Y		Y		Y	74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	2,6-Dinitrotoluene	162	UG_KG	Z-01a,J			3400	780	Y					74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	2-Amino-4,6-dinitrotoluene	617	UG_KG	P			230000	15000	Y					74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	4-Amino-2,6-dinitrotoluene	1760	UG_KG	Z-01a			230000	15000	Y					74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Aluminum	2170	MG_KG		12800		100000	7700	Y					2.54	10.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Antimony	0.406	MG_KG	YUN	1.87	0.9	47	3.1						0.254	0.508	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Arsenic	0.558	MG_KG		1.17	5.8	3	0.67	Y					0.152	0.508	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Barium	13.6	MG_KG		36.7	580	22000	1500	Y					0.254	2.03	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Beryllium	0.0514	MG_KG	Y, J	0.195	63	230	16	Y					0.0508	0.254	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Cadmium	0.102	MG_KG	Y, U	0.2	3	98	7						0.0508	0.254	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Calcium	1380	MG_KG	N	8470				Y					50.8	254	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Chromium	2.82	MG_KG		17.4	3.8	6.3	0.3	Y					0.102	0.508	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Cobalt	0.508	MG_KG	Y, U	0.414	0.9	35	2.3						0.254	0.635	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Copper	1.36	MG_KG	Y	17.1	700	4700	310						0.203	0.508	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Iron	1780	MG_KG		7210	150	82000	5500	Y					1.52	5.08	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Lead	1.15	MG_KG	Y	27.5	270	800	400						0.0762	0.152	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Magnesium	99.6	MG_KG	Y, J	904				Y					50.8	254	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Manganese	10.4	MG_KG		37	65	2600	180	Y					0.152	0.762	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Mercury	0.0337	MG_KG	UN	0.161	1	35	2.3						0.0133	0.0337	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Nickel	0.663	MG_KG		3.11	130	2200	150	Y					0.152	0.508	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Perchlorate	1.67	UG_KG	J			82000	5500	Y					0.612	5.1	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	PETN	370	UG_KG	U			160000	12000						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Potassium	53.1	MG_KG	JN	359				Y					50.8	254	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	RDX	148	UG_KG	U			28000	6000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Selenium	0.254	MG_KG	U	1.59	1.5	580	39						0.152	0.508	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Silver	0.102	MG_KG	U	0.354	3.4	580	39						0.0508	0.508	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Sodium	152	MG_KG	U	250									50.8	254	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Thallium	0.203	MG_KG	YUN		0.28	1.2	0.078						0.152	0.406	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Vanadium	4.73	MG_KG		17.6	6	580	39	Y					0.254	0.635	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS113-IC-11B	N	Zinc	10.5	MG_KG		28.6	1200	35000	2300	Y					0.254	1.02	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	2,4,6-Trinitrotoluene	302	UG_KG	J			52000	3600	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	2-Amino-4,6-dinitrotoluene	117	UG_KG	J			230000	15000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	4-Amino-2,6-dinitrotoluene	234	UG_KG	J			230000	15000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Aluminum	4450	MG_KG		12800		100000	7700	Y					2.73	10.9	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Antimony	0.436	MG_KG	YUN	1.87	0.9	47	3.1						0.273	0.545	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Arsenic	0.974	MG_KG		1.17	5.8	3	0.67	Y					0.164	0.545	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Barium	13	MG_KG		36.7	580	22000	1500	Y					0.273	2.18	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Beryllium	0.0819	MG_KG	Y, J	0.195	63	230	16	Y					0.0545	0.273	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Cadmium	0.056	MG_KG	Y, J	0.2	3	98	7	Y					0.0545	0.273	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Calcium	6480	MG_KG	N	8470				Y					54.5	273	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Chromium	4.04	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.545	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Cobalt	0.275	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.273	0.681	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Copper	3.32	MG_KG	Y	17.1	700	4700	310						0.218	0.545	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Iron	2510	MG_KG		7210	150	82000	5500	Y					1.64	5.45	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Lead	5.05	MG_KG	Y	27.5	270	800	400						0.0818	0.164	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Magnesium	208	MG_KG	Y, J	904				Y					54.5	273	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Manganese	22.2	MG_KG		37	65	2600	180	Y					0.164	0.818	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Mercury	0.0391	MG_KG	UN	0.161	1	35	2.3						0.0154	0.0391	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Nickel	1.56	MG_KG		3.11	130	2200	150	Y					0.164	0.545	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Perchlorate	2.21	UG_KG	U			82000	5500						0.664	5.53	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Potassium	149	MG_KG	JN	359				Y					54.5	273	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Selenium	0.175	MG_KG	J	1.59	1.5	580	39	Y					0.164	0.545	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.0545	0.545	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Sodium	164	MG_KG	U	250									54.5	273	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Thallium	0.218	MG_KG	YUN		0.28	1.2	0.078						0.164	0.436	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Vanadium	6.81	MG_KG		17.6	6	580	39	Y					0.273	0.681	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS113-OC-11B	N	Zinc	14.5	MG_KG		28.6	1200	35000	2300	Y					0.273	1.09	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	3-Nitrotoluene	146	UG_KG	J			8200	620	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	4-Amino-2,6-dinitrotoluene	108	UG_KG	JP			230000	15000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	4-Nitrotoluene	403	UG_KG	MP			140000	25000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Aluminum	4620	MG_KG		12800		100000	7700	Y					2.97	11.9	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Antimony	0.476	MG_KG	YUN	1.87	0.9	47	3.1						0.297	0.595	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.178	0.595	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Barium	23.8	MG_KG		36.7	580	22000	1500	Y					0.297	2.38	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Beryllium	0.191	MG_KG	Y, J	0.195	63	230	16	Y					0.0595	0.297	04/06/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Cadmium	0.0956	MG_KG	Y, J	0.2	3	98	7	Y					0.0595	0.297	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Calcium	353	MG_KG	N	8470				Y					59.5	297	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Chromium	3.06	MG_KG		17.4	3.8	6.3	0.3	Y					0.119	0.595	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Cobalt	0.595	MG_KG	Y, U	0.414	0.9	35	2.3						0.297	0.744	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Copper	1.96	MG_KG	Y	17.1	700	4700	310						0.238	0.595	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Iron	3030	MG_KG		7210	150	82000	5500	Y					1.78	5.95	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Lead	6.41	MG_KG	Y	27.5	270	800	400						0.0892	0.178	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Magnesium	177	MG_KG	Y, J	904				Y					59.5	297	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Manganese	60.2	MG_KG		37	65	2600	180	Y	Y				0.178	0.892	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Mercury	0.0162	MG_KG	JN	0.161	1	35	2.3	Y					0.0151	0.0383	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Nickel	1.33	MG_KG		3.11	130	2200	150	Y					0.178	0.595	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Perchlorate	2.32	UG_KG	U			82000	5500						0.696	5.8	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Potassium	126	MG_KG	JN	359				Y					59.5	297	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Selenium	0.297	MG_KG	U	1.59	1.5	580	39						0.178	0.595	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Silver	0.119	MG_KG	U	0.354	3.4	580	39						0.0595	0.595	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Sodium	178	MG_KG	U	250									59.5	297	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Tetryl	673	UG_KG				160000	12000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Thallium	0.238	MG_KG	YUN		0.28	1.2	0.078						0.178	0.476	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Vanadium	5.38	MG_KG		17.6	6	580	39	Y					0.297	0.744	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS114-IC-11B	N	Zinc	8.98	MG_KG		28.6	1200	35000	2300	Y					0.297	1.19	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	2,4,6-Trinitrotoluene	148	UG_KG	J			52000	3600	Y					74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Aluminum	5900	MG_KG		12800		100000	7700	Y					2.89	11.6	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Antimony	0.462	MG_KG	YUN	1.87	0.9	47	3.1						0.289	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Arsenic	1.2	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Barium	28.2	MG_KG		36.7	580	22000	1500	Y					0.289	2.31	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Beryllium	0.206	MG_KG	Y, J	0.195	63	230	16	Y	Y				0.0578	0.289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Cadmium	0.1	MG_KG	Y, J	0.2	3	98	7	Y					0.0578	0.289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Calcium	189	MG_KG	JN	8470				Y					57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Chromium	4.12	MG_KG		17.4	3.8	6.3	0.3	Y					0.116	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Cobalt	0.578	MG_KG	Y, U	0.414	0.9	35	2.3						0.289	0.722	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Copper	4.06	MG_KG	Y	17.1	700	4700	310						0.231	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Iron	3640	MG_KG		7210	150	82000	5500	Y					1.73	5.78	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Lead	9.79	MG_KG	Y	27.5	270	800	400						0.0867	0.173	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Magnesium	205	MG_KG	Y, J	904				Y					57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Manganese	37.5	MG_KG		37	65	2600	180	Y	Y				0.173	0.867	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Mercury	0.0196	MG_KG	JN	0.161	1	35	2.3	Y					0.0121	0.033	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Nickel	1.51	MG_KG		3.11	130	2200	150	Y					0.173	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.686	5.72	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	PETN	370	UG_KG	U			160000	12000						185	741	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Potassium	140	MG_KG	JN	359				Y					57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	RDX	148	UG_KG	U			28000	6000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Selenium	0.282	MG_KG	J	1.59	1.5	580	39	Y					0.173	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.0578	0.578	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Sodium	173	MG_KG	U	250									57.8	289	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Thallium	0.231	MG_KG	YUN		0.28	1.2	0.078						0.173	0.462	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Vanadium	7.37	MG_KG		17.6	6	580	39	Y					0.289	0.722	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS114-OC-11B	N	Zinc	9.36	MG_KG		28.6	1200	35000	2300	Y					0.289	1.16	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Aluminum	3880	MG_KG		12800		100000	7700	Y					2.75	11	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Antimony	0.44	MG_KG	YUN	1.87	0.9	47	3.1						0.275	0.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Arsenic	0.971	MG_KG		1.17	5.8	3	0.67	Y					0.165	0.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Barium	16.8	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Beryllium	0.153	MG_KG	Y, J	0.195	63	230	16	Y					0.055	0.275	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Cadmium	0.11	MG_KG	Y, U	0.2	3	98	7						0.055	0.275	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Calcium	143	MG_KG	JN	8470				Y					55	275	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Chromium	2.89	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Cobalt	0.356	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.275	0.687	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Copper	1.13	MG_KG	Y	17.1	700	4700	310						0.22	0.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Iron	1920	MG_KG		7210	150	82000	5500	Y					1.65	5.5	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Lead	4.7	MG_KG	Y	27.5	270	800	400						0.0825	0.165	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Magnesium	122	MG_KG	Y, J	904				Y					55	275	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Manganese	24.4	MG_KG		37	65	2600	180	Y					0.165	0.825	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Mercury	0.0138	MG_KG	JN	0.161	1	35	2.3	Y					0.0136	0.0344	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Nickel	1.11	MG_KG		3.11	130	2200	150	Y					0.165	0.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	04/06/11	SVOA	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Perchlorate	2.15	UG_KG	U			82000	5500						0.646	5.39	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Potassium	99.2	MG_KG	JN	359				Y					55	275	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Silver	0.11	MG_KG	M, U	0.354	3.4	580	39						0.11	0.55	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Sodium	165	MG_KG	U	250									55	275	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Tetryl	104	UG_KG	J			160000	12000	Y					90.9	364	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Thallium	0.22	MG_KG	YUN		0.28	1.2	0.078						0.165	0.44	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Vanadium	4.77	MG_KG		17.6	6	580	39	Y					0.275	0.687	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS115-IC-11B	N	Zinc	6.07	MG_KG		28.6	1200	35000	2300	Y					0.275	1.1	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	4-Nitrotoluene	1450	UG_KG				140000	25000	Y					83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Aluminum	3540	MG_KG		12800		100000	7700	Y					2.8	11.2	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Antimony	0.447	MG_KG	YUN	1.87	0.9	47	3.1						0.28	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Arsenic	0.876	MG_KG		1.17	5.8	3	0.67	Y					0.168	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Barium	21.2	MG_KG		36.7	580	22000	1500	Y					0.28	2.24	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Beryllium	0.139	MG_KG	Y, J	0.195	63	230	16	Y					0.0559	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Cadmium	0.13	MG_KG	Y, J	0.2	3	98	7	Y					0.0559	0.28	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Calcium	1310	MG_KG	N	8470				Y					55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Chromium	2.72	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Cobalt	0.285	MG_KG	Y, J	0.414	0.9	35	2.3	Y					0.28	0.699	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Copper	2.77	MG_KG	Y	17.1	700	4700	310						0.224	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Iron	1800	MG_KG		7210	150	82000	5500	Y					1.68	5.59	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Lead	5.22	MG_KG	Y	27.5	270	800	400						0.0839	0.168	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Magnesium	171	MG_KG	Y, J	904				Y					55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Manganese	66.9	MG_KG		37	65	2600	180	Y	Y	Y			0.168	0.839	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Mercury	0.0167	MG_KG	JN	0.161	1	35	2.3	Y					0.0136	0.0346	04/06/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Nickel	1.14	MG_KG		3.11	130	2200	150	Y					0.168	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/06/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Perchlorate	1.24	UG_KG	J			82000	5500	Y					0.671	5.59	04/06/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Potassium	140	MG_KG	JN	359				Y					55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Selenium	0.186	MG_KG	J	1.59	1.5	580	39	Y					0.168	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0559	0.559	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Sodium	168	MG_KG	U	250									55.9	280	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	04/06/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Thallium	0.224	MG_KG	YUN		0.28	1.2	0.078						0.168	0.447	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Vanadium	4.52	MG_KG		17.6	6	580	39	Y					0.28	0.699	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS115-OC-11B	N	Zinc	14.8	MG_KG		28.6	1200	35000	2300	Y					0.28	1.12	04/06/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Aluminum	5970	MG_KG		12800		100000	7700	Y					2.85	11.4	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Antimony	0.456	MG_KG	UN	1.87	0.9	47	3.1						0.285	0.57	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.171	0.57	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Barium	14.3	MG_KG	N	36.7	580	22000	1500	Y					0.285	2.28	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Beryllium	0.125	MG_KG	J	0.195	63	230	16	Y					0.057	0.285	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Cadmium	0.07	MG_KG	J	0.2	3	98	7	Y					0.057	0.285	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Calcium	11000	MG_KG		8470				Y	Y				57	285	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Chromium	5.63	MG_KG		17.4	3.8	6.3	0.3	Y					0.114	0.57	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Cobalt	0.481	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.285	0.713	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Copper	14.9	MG_KG	N	17.1	700	4700	310	Y					0.228	0.57	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	HMX	200	UG_KG	U			5700000	380000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Iron	3960	MG_KG	Q	7210	150	82000	5500	Y					1.71	5.7	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Lead	8.31	MG_KG		27.5	270	800	400	Y					0.0856	0.171	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Magnesium	289	MG_KG		904				Y					57	285	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Manganese	21.8	MG_KG	N	37	65	2600	180	Y					0.171	0.856	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Mercury	0.0163	MG_KG	J	0.161	1	35	2.3	Y					0.0143	0.0362	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Nickel	2.15	MG_KG		3.11	130	2200	150	Y					0.285	0.57	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Perchlorate	2.27	UG_KG	U			82000	5500						0.681	5.68	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	PETN	500	UG_KG	U			160000	12000						250	1000	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Potassium	210	MG_KG	JN	359				Y					57	285	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	RDX	200	UG_KG	U			28000	6000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Selenium	0.284	MG_KG	J	1.59	1.5	580	39	Y					0.171	0.57	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Silver	0.228	MG_KG	M, U	0.354	3.4	580	39						0.114	0.57	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Sodium	171	MG_KG	UN	250									57	285	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Tetryl	200	UG_KG	U			160000	12000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.171	0.456	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Vanadium	8.58	MG_KG		17.6	6	580	39	Y					0.285	0.713	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116D-IC-11B	FD	Zinc	35.6	MG_KG	N	28.6	1200	35000	2300	Y	Y				0.285	1.14	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	04/18/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Aluminum	8310	MG_KG		12800		100000	7700	Y					3.15	12.6	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Antimony	0.503	MG_KG	UN	1.87	0.9	47	3.1						0.315	0.629	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Arsenic	1.67	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.189	0.629	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Barium	17.9	MG_KG	N	36.7	580	22000	1500	Y					0.315	2.52	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Beryllium	0.162	MG_KG	J	0.195	63	230	16	Y					0.0629	0.315	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Cadmium	0.0686	MG_KG	J	0.2	3	98	7	Y					0.0629	0.315	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Calcium	9080	MG_KG		8470				Y	Y				62.9	315	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Chromium	7.7	MG_KG		17.4	3.8	6.3	0.3	Y					0.126	0.629	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Cobalt	0.601	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.315	0.787	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Copper	5.67	MG_KG	N	17.1	700	4700	310	Y					0.252	0.629	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	HMX	200	UG_KG	U			5700000	380000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Iron	5890	MG_KG	Q	7210	150	82000	5500	Y					1.89	6.29	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Lead	8.41	MG_KG		27.5	270	800	400	Y					0.0944	0.189	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Magnesium	350	MG_KG		904				Y					62.9	315	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Manganese	17.8	MG_KG	N	37	65	2600	180	Y					0.189	0.944	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Mercury	0.0274	MG_KG	J	0.161	1	35	2.3	Y					0.0166	0.0422	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Nickel	2.41	MG_KG		3.11	130	2200	150	Y					0.315	0.629	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Perchlorate	2.64	UG_KG	U			82000	5500						0.793	6.61	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	PETN	500	UG_KG	U			160000	12000						250	1000	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Potassium	342	MG_KG	N	359				Y					62.9	315	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	RDX	200	UG_KG	U			28000	6000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Selenium	0.343	MG_KG	J	1.59	1.5	580	39	Y					0.189	0.629	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Silver	0.252	MG_KG	M, U	0.354	3.4	580	39						0.126	0.629	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Sodium	189	MG_KG	UN	250									62.9	315	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Tetryl	200	UG_KG	U			160000	12000						100	400	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Thallium	0.252	MG_KG	U		0.28	1.2	0.078						0.189	0.503	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Vanadium	12.7	MG_KG		17.6	6	580	39	Y					0.315	0.787	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS116-IC-11B	N	Zinc	21.6	MG_KG	N	28.6	1200	35000	2300	Y					0.315	1.26	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Aluminum	4800	MG_KG		12800		100000	7700	Y					2.97	11.9	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Antimony	0.475	MG_KG	UN	1.87	0.9	47	3.1						0.297	0.594	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Arsenic	0.942	MG_KG		1.17	5.8	3	0.67	Y					0.178	0.594	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Barium	10.6	MG_KG	N	36.7	580	22000	1500	Y					0.297	2.38	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Beryllium	0.102	MG_KG	J	0.195	63	230	16	Y					0.0594	0.297	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Cadmium	0.0656	MG_KG	J	0.2	3	98	7	Y					0.0594	0.297	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Calcium	8710	MG_KG		8470				Y	Y				59.4	297	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Chromium	4.92	MG_KG		17.4	3.8	6.3	0.3	Y					0.119	0.594	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Cobalt	0.417	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.297	0.743	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Copper	2.88	MG_KG	N	17.1	700	4700	310	Y					0.238	0.594	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Iron	3450	MG_KG	Q	7210	150	82000	5500	Y					1.78	5.94	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Lead	5.26	MG_KG		27.5	270	800	400	Y					0.0892	0.178	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Magnesium	247	MG_KG	J	904				Y					59.4	297	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Manganese	19.1	MG_KG	N	37	65	2600	180	Y					0.178	0.892	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Mercury	0.0344	MG_KG	U	0.161	1	35	2.3						0.0136	0.0344	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Nickel	1.91	MG_KG		3.11	130	2200	150	Y					0.297	0.594	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Perchlorate	2.37	UG_KG	U			82000	5500						0.71	5.91	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	PETN	357	UG_KG	U			160000	12000						179	714	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Potassium	202	MG_KG	JN	359				Y					59.4	297	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	RDX	143	UG_KG	U			28000	6000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Selenium	0.284	MG_KG	J	1.59	1.5	580	39	Y					0.178	0.594	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Silver	0.119	MG_KG	U	0.354	3.4	580	39						0.0594	0.594	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Sodium	178	MG_KG	UN	250									59.4	297	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Thallium	0.238	MG_KG	U		0.28	1.2	0.078						0.178	0.475	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Vanadium	7.35	MG_KG		17.6	6	580	39	Y					0.297	0.743	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS116-OC-11B	N	Zinc	16.4	MG_KG	N	28.6	1200	35000	2300	Y					0.297	1.19	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Aluminum	11500	MG_KG		12800		100000	7700	Y					3.13	12.5	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Antimony	0.501	MG_KG	UN	1.87	0.9	47	3.1						0.313	0.626	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Arsenic	2.31	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.188	0.626	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Barium	30.2	MG_KG	N	36.7	580	22000	1500	Y					0.313	2.5	04/18/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Beryllium	0.265	MG_KG	J	0.195	63	230	16	Y	Y				0.0626	0.313	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Cadmium	0.125	MG_KG	U	0.2	3	98	7						0.0626	0.313	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Calcium	1750	MG_KG		8470				Y					62.6	313	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Chromium	10	MG_KG		17.4	3.8	6.3	0.3	Y					0.125	0.626	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Cobalt	0.506	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.313	0.782	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Copper	2.89	MG_KG	N	17.1	700	4700	310	Y					0.25	0.626	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Iron	8330	MG_KG	Q	7210	150	82000	5500	Y	Y	Y		Y	1.88	6.26	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Lead	9.68	MG_KG		27.5	270	800	400	Y					0.0939	0.188	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Magnesium	304	MG_KG	J	904				Y					62.6	313	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Manganese	14.4	MG_KG	N	37	65	2600	180	Y					0.188	0.939	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Mercury	0.016	MG_KG	J	0.161	1	35	2.3	Y					0.0133	0.0337	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Nickel	2.49	MG_KG		3.11	130	2200	150	Y					0.313	0.626	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Perchlorate	2.45	UG_KG	U			82000	5500						0.736	6.13	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Potassium	293	MG_KG	JN	359				Y					62.6	313	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Selenium	0.328	MG_KG	J	1.59	1.5	580	39	Y					0.188	0.626	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Silver	0.125	MG_KG	M, U	0.354	3.4	580	39						0.125	0.626	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Sodium	188	MG_KG	UN	250									62.6	313	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Thallium	0.313	MG_KG	M, U		0.28	1.2	0.078						0.313	0.501	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Vanadium	14.9	MG_KG		17.6	6	580	39	Y					0.313	0.782	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS117-IC-11B	N	Zinc	11.1	MG_KG	N	28.6	1200	35000	2300	Y					0.313	1.25	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Aluminum	6710	MG_KG		12800		100000	7700	Y					3.12	12.5	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Antimony	0.499	MG_KG	UN	1.87	0.9	47	3.1						0.312	0.624	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Arsenic	1.4	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.187	0.624	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Barium	20.9	MG_KG	N	36.7	580	22000	1500	Y					0.312	2.5	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Beryllium	0.163	MG_KG	J	0.195	63	230	16	Y					0.0624	0.312	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Cadmium	0.125	MG_KG	U	0.2	3	98	7						0.0624	0.312	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Calcium	2180	MG_KG		8470				Y					62.4	312	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Chromium	5.57	MG_KG		17.4	3.8	6.3	0.3	Y					0.125	0.624	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Cobalt	0.381	MG_KG	J	0.414	0.9	35	2.3	Y					0.312	0.78	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Copper	4.05	MG_KG	N	17.1	700	4700	310	Y					0.25	0.624	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	HMX	138	UG_KG	U			5700000	380000						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Iron	4580	MG_KG	Q	7210	150	82000	5500	Y					1.87	6.24	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Lead	8.59	MG_KG		27.5	270	800	400	Y					0.0936	0.187	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Magnesium	189	MG_KG	J	904				Y					62.4	312	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Manganese	17.3	MG_KG	N	37	65	2600	180	Y					0.187	0.936	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Mercury	0.016	MG_KG	J	0.161	1	35	2.3	Y					0.016	0.0406	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Nickel	1.9	MG_KG		3.11	130	2200	150	Y					0.312	0.624	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Perchlorate	2.62	UG_KG	U			82000	5500						0.787	6.55	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	PETN	345	UG_KG	U			160000	12000						172	690	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Potassium	211	MG_KG	JN	359				Y					62.4	312	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	RDX	138	UG_KG	U			28000	6000						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Selenium	0.276	MG_KG	J	1.59	1.5	580	39	Y					0.187	0.624	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Silver	0.125	MG_KG	U	0.354	3.4	580	39						0.0624	0.624	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Sodium	187	MG_KG	UN	250									62.4	312	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Tetryl	138	UG_KG	U			160000	12000						69	276	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Thallium	0.25	MG_KG	U		0.28	1.2	0.078						0.187	0.499	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Vanadium	8.83	MG_KG		17.6	6	580	39	Y					0.312	0.78	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS117-OC-11B	N	Zinc	18.9	MG_KG	N	28.6	1200	35000	2300	Y					0.312	1.25	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Aluminum	3330	MG_KG		12800		100000	7700	Y					2.82	11.3	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Antimony	0.451	MG_KG	UN	1.87	0.9	47	3.1						0.282	0.563	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Arsenic	0.952	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.563	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Barium	16	MG_KG	N	36.7	580	22000	1500	Y					0.282	2.25	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Beryllium	0.134	MG_KG	J	0.195	63	230	16	Y					0.0563	0.282	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Cadmium	0.0752	MG_KG	J	0.2	3	98	7	Y					0.0563	0.282	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Calcium	1390	MG_KG		8470				Y					56.3	282	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Chromium	2.39	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.563	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Cobalt	0.282	MG_KG	J	0.414	0.9	35	2.3	Y					0.282	0.704	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Copper	7.75	MG_KG	N	17.1	700	4700	310	Y					0.225	0.563	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Iron	1560	MG_KG	Q	7210	150	82000	5500	Y					1.69	5.63	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Lead	12.1	MG_KG		27.5	270	800	400	Y					0.0845	0.169	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Magnesium	114	MG_KG	J	904				Y					56.3	282	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Manganese	22.5	MG_KG	N	37	65	2600	180	Y					0.169	0.845	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Mercury	0.0416	MG_KG	U	0.161	1	35	2.3						0.0164	0.0416	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Nickel	1.32	MG_KG		3.11	130	2200	150	Y					0.282	0.563	04/18/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Perchlorate	2.35	UG_KG	U			82000	5500						0.706	5.89	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Potassium	207	MG_KG	JN	359				Y					56.3	282	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Selenium	0.282	MG_KG	U	1.59	1.5	580	39						0.169	0.563	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0563	0.563	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Sodium	169	MG_KG	UN	250									56.3	282	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Thallium	0.225	MG_KG	U		0.28	1.2	0.078						0.169	0.451	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Vanadium	3.98	MG_KG		17.6	6	580	39	Y					0.282	0.704	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS118-IC-11B	N	Zinc	48.5	MG_KG	N	28.6	1200	35000	2300	Y	Y				0.282	1.13	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	2-Nitrotoluene	2510	UG_KG				15000	3200	Y					71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Aluminum	3980	MG_KG		12800		100000	7700	Y					3.26	13.1	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Antimony	0.522	MG_KG	UN	1.87	0.9	47	3.1						0.326	0.653	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Arsenic	1.01	MG_KG		1.17	5.8	3	0.67	Y					0.196	0.653	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Barium	19.6	MG_KG	N	36.7	580	22000	1500	Y					0.326	2.61	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Beryllium	0.136	MG_KG	J	0.195	63	230	16	Y					0.0653	0.326	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Cadmium	0.469	MG_KG		0.2	3	98	7	Y	Y				0.0653	0.326	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Calcium	2210	MG_KG		8470				Y					65.3	326	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Chromium	3.3	MG_KG		17.4	3.8	6.3	0.3	Y					0.131	0.653	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Cobalt	0.541	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.326	0.816	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Copper	44.4	MG_KG	N	17.1	700	4700	310	Y	Y				0.261	0.653	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Iron	2730	MG_KG	Q	7210	150	82000	5500	Y					1.96	6.53	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Lead	21.4	MG_KG		27.5	270	800	400	Y					0.0979	0.196	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Magnesium	144	MG_KG	J	904				Y					65.3	326	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Manganese	57.8	MG_KG	N	37	65	2600	180	Y	Y				0.196	0.979	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Mercury	0.035	MG_KG	U	0.161	1	35	2.3						0.0138	0.035	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Nickel	2.43	MG_KG		3.11	130	2200	150	Y					0.326	0.653	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Perchlorate	2.69	UG_KG	U			82000	5500						0.807	6.72	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	PETN	357	UG_KG	U			160000	12000						179	714	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Potassium	155	MG_KG	JN	359				Y					65.3	326	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	RDX	143	UG_KG	U			28000	6000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Selenium	0.2	MG_KG	J	1.59	1.5	580	39	Y					0.196	0.653	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Silver	0.131	MG_KG	U	0.354	3.4	580	39						0.0653	0.653	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Sodium	196	MG_KG	UN	250									65.3	326	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Thallium	0.261	MG_KG	M, U		0.28	1.2	0.078						0.261	0.522	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Vanadium	4.82	MG_KG		17.6	6	580	39	Y					0.326	0.816	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS118-OC-11B	N	Zinc	61.2	MG_KG	N	28.6	1200	35000	2300	Y	Y				0.326	1.31	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Aluminum	8200	MG_KG		12800		100000	7700	Y					3.47	13.9	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Antimony	0.556	MG_KG	UN	1.87	0.9	47	3.1						0.347	0.695	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Arsenic	2.1	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.208	0.695	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Barium	39	MG_KG	N	36.7	580	22000	1500	Y	Y				0.347	2.78	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Beryllium	0.269	MG_KG	J	0.195	63	230	16	Y	Y				0.0695	0.347	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Cadmium	0.16	MG_KG	J	0.2	3	98	7	Y					0.0695	0.347	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Calcium	1910	MG_KG		8470				Y					69.5	347	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Chromium	6.15	MG_KG		17.4	3.8	6.3	0.3	Y					0.139	0.695	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Cobalt	0.662	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.347	0.869	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Copper	9.41	MG_KG	N	17.1	700	4700	310	Y					0.278	0.695	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Iron	3860	MG_KG	Q	7210	150	82000	5500	Y					2.08	6.95	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Lead	18.6	MG_KG		27.5	270	800	400	Y					0.104	0.208	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Magnesium	259	MG_KG	J	904				Y					69.5	347	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Manganese	39.6	MG_KG	N	37	65	2600	180	Y	Y				0.208	1.04	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Mercury	0.0256	MG_KG	J	0.161	1	35	2.3	Y					0.0201	0.0511	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Nickel	3.02	MG_KG		3.11	130	2200	150	Y					0.347	0.695	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Nitroglycerin	259	UG_KG	J			8200	620	Y					179	714	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Perchlorate	2.89	UG_KG	U			82000	5500						0.867	7.23	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	PETN	357	UG_KG	U			160000	12000						179	714	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Potassium	290	MG_KG	JN	359				Y					69.5	347	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	RDX	143	UG_KG	U			28000	6000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Selenium	0.311	MG_KG	J	1.59	1.5	580	39	Y					0.208	0.695	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Silver	0.139	MG_KG	M, U	0.354	3.4	580	39						0.139	0.695	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Sodium	208	MG_KG	UN	250									69.5	347	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Thallium	0.417	MG_KG	M, U		0.28	1.2	0.078						0.417	0.556	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Vanadium	9.56	MG_KG		17.6	6	580	39	Y					0.347	0.869	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS119-IC-11B	N	Zinc	52.1	MG_KG	N	28.6	1200	35000	2300	Y	Y				0.347	1.39	04/18/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Aluminum	5370	MG_KG	D	12800		100000	7700	Y					6.47	25.9	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Antimony	0.518	MG_KG	UN	1.87	0.9	47	3.1						0.323	0.647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Arsenic	1.64	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.194	0.647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Barium	27.5	MG_KG	N	36.7	580	22000	1500	Y					0.323	2.59	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Beryllium	0.192	MG_KG	J	0.195	63	230	16	Y					0.0647	0.323	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Cadmium	0.227	MG_KG	J	0.2	3	98	7	Y	Y				0.0647	0.323	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Calcium	42200	MG_KG	D	8470				Y	Y				129	647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Chromium	5.38	MG_KG		17.4	3.8	6.3	0.3	Y					0.129	0.647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Cobalt	1.22	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.323	0.809	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Copper	23	MG_KG	N	17.1	700	4700	310	Y	Y				0.259	0.647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Iron	3130	MG_KG	Q	7210	150	82000	5500	Y					1.94	6.47	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Lead	16.7	MG_KG	D	27.5	270	800	400	Y					0.194	0.388	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Magnesium	668	MG_KG		904				Y					64.7	323	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Manganese	76.9	MG_KG	N	37	65	2600	180	Y	Y	Y			0.194	0.97	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Mercury	0.0205	MG_KG	J	0.161	1	35	2.3	Y					0.0149	0.0379	04/18/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Nickel	6.17	MG_KG		3.11	130	2200	150	Y	Y				0.323	0.647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	04/18/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Nitroglycerin	416	UG_KG	JP			8200	620	Y					192	769	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Perchlorate	2.68	UG_KG	U			82000	5500						0.803	6.7	04/18/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	PETN	385	UG_KG	U			160000	12000						192	769	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Potassium	328	MG_KG	N	359				Y					64.7	323	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	RDX	154	UG_KG	U			28000	6000						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Selenium	0.323	MG_KG	U	1.59	1.5	580	39						0.194	0.647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Silver	0.129	MG_KG	U	0.354	3.4	580	39						0.0647	0.647	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Sodium	194	MG_KG	UN	250									64.7	323	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	04/18/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Thallium	0.259	MG_KG	M, U		0.28	1.2	0.078						0.259	0.518	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Vanadium	7.56	MG_KG		17.6	6	580	39	Y					0.323	0.809	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS119-OC-11B	N	Zinc	75.2	MG_KG	DN	28.6	1200	35000	2300	Y	Y				0.647	2.59	04/18/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Aluminum	5300	MG_KG		12800		100000	7700	Y					2.97	11.9	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Antimony	0.519	MG_KG	JN	1.87	0.9	47	3.1	Y					0.297	0.594	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Arsenic	1.26	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.178	0.594	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Barium	20.9	MG_KG		36.7	580	22000	1500	Y					0.297	2.38	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Beryllium	0.169	MG_KG	J	0.195	63	230	16	Y					0.0594	0.297	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Cadmium	0.119	MG_KG	U	0.2	3	98	7						0.0594	0.297	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Calcium	1260	MG_KG	*	8470				Y					59.4	297	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Chromium	4.63	MG_KG		17.4	3.8	6.3	0.3	Y					0.119	0.594	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Cobalt	0.308	MG_KG	J	0.414	0.9	35	2.3	Y					0.297	0.743	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Copper	9.3	MG_KG		17.1	700	4700	310	Y					0.238	0.594	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Iron	2590	MG_KG		7210	150	82000	5500	Y					1.78	5.94	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Lead	16.9	MG_KG		27.5	270	800	400	Y					0.0892	0.178	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Magnesium	153	MG_KG	J	904				Y					59.4	297	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Manganese	24.9	MG_KG		37	65	2600	180	Y					0.178	0.892	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Mercury	0.028	MG_KG	J	0.161	1	35	2.3	Y					0.0132	0.0335	04/29/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Nickel	1.49	MG_KG		3.11	130	2200	150	Y					0.297	0.594	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Nitroglycerin	382	UG_KG	J			8200	620	Y					227	909	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Perchlorate	2.37	UG_KG	U			82000	5500						0.71	5.91	04/29/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	PETN	455	UG_KG	U			160000	12000						227	909	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Potassium	176	MG_KG	J	359				Y					59.4	297	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	RDX	182	UG_KG	U			28000	6000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Selenium	0.234	MG_KG	J	1.59	1.5	580	39	Y					0.178	0.594	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Silver	0.119	MG_KG	U	0.354	3.4	580	39						0.0594	0.594	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Sodium	178	MG_KG	U	250									59.4	297	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Thallium	0.238	MG_KG	U		0.28	1.2	0.078						0.178	0.476	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Vanadium	6.55	MG_KG		17.6	6	580	39	Y					0.297	0.743	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130D-IC-11B	FD	Zinc	14	MG_KG		28.6	1200	35000	2300	Y					0.297	1.19	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Aluminum	6080	MG_KG		12800		100000	7700	Y					3.4	13.6	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Antimony	0.598	MG_KG	JN	1.87	0.9	47	3.1	Y					0.34	0.679	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Arsenic	1.44	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.204	0.679	04/29/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Barium	22	MG_KG		36.7	580	22000	1500	Y					0.34	2.72	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Beryllium	0.196	MG_KG	J	0.195	63	230	16	Y	Y				0.0679	0.34	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Cadmium	0.136	MG_KG	U	0.2	3	98	7						0.0679	0.34	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Calcium	1330	MG_KG	*	8470				Y					67.9	340	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Chromium	6.44	MG_KG		17.4	3.8	6.3	0.3	Y					0.136	0.679	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Cobalt	0.351	MG_KG	J	0.414	0.9	35	2.3	Y					0.34	0.849	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Copper	12	MG_KG		17.1	700	4700	310	Y					0.272	0.679	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Iron	3160	MG_KG		7210	150	82000	5500	Y					2.04	6.79	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Lead	20.1	MG_KG		27.5	270	800	400	Y					0.102	0.204	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Magnesium	184	MG_KG	J	904				Y					67.9	340	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Manganese	27	MG_KG		37	65	2600	180	Y					0.204	1.02	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Mercury	0.0293	MG_KG	J	0.161	1	35	2.3	Y					0.0185	0.0471	04/29/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Nickel	2.42	MG_KG		3.11	130	2200	150	Y					0.34	0.679	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Perchlorate	2.66	UG_KG	U			82000	5500						0.799	6.66	04/29/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Potassium	212	MG_KG	J	359				Y					67.9	340	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Selenium	0.303	MG_KG	J	1.59	1.5	580	39	Y					0.204	0.679	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Silver	0.136	MG_KG	U	0.354	3.4	580	39						0.0679	0.679	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Sodium	204	MG_KG	U	250									67.9	340	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Thallium	0.272	MG_KG	U		0.28	1.2	0.078						0.204	0.544	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Vanadium	8.07	MG_KG		17.6	6	580	39	Y					0.34	0.849	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS130-IC-11B	N	Zinc	16.8	MG_KG		28.6	1200	35000	2300	Y					0.34	1.36	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Aluminum	6240	MG_KG		12800		100000	7700	Y					3.06	12.2	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Antimony	0.336	MG_KG	JN	1.87	0.9	47	3.1	Y					0.306	0.612	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Arsenic	1.65	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.184	0.612	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Barium	23.8	MG_KG		36.7	580	22000	1500	Y					0.306	2.45	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Beryllium	0.177	MG_KG	J	0.195	63	230	16	Y					0.0612	0.306	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Cadmium	0.0903	MG_KG	J	0.2	3	98	7	Y					0.0612	0.306	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Calcium	26800	MG_KG	*	8470				Y	Y				61.2	306	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Chromium	5.74	MG_KG		17.4	3.8	6.3	0.3	Y					0.122	0.612	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Cobalt	1.21	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.306	0.765	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Copper	5.31	MG_KG		17.1	700	4700	310	Y					0.245	0.612	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Iron	3410	MG_KG		7210	150	82000	5500	Y					1.84	6.12	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Lead	11.6	MG_KG		27.5	270	800	400	Y					0.0918	0.184	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Magnesium	507	MG_KG		904				Y					61.2	306	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Manganese	63.6	MG_KG		37	65	2600	180	Y	Y				0.184	0.918	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Mercury	0.0274	MG_KG	J	0.161	1	35	2.3	Y					0.0145	0.0367	04/29/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Nickel	6.47	MG_KG		3.11	130	2200	150	Y	Y				0.306	0.612	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	04/29/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Perchlorate	2.52	UG_KG	U			82000	5500						0.756	6.3	04/29/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Potassium	336	MG_KG		359				Y					61.2	306	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Selenium	0.27	MG_KG	J	1.59	1.5	580	39	Y					0.184	0.612	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Silver	0.122	MG_KG	M, U	0.354	3.4	580	39						0.122	0.612	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Sodium	184	MG_KG	U	250									61.2	306	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Tetryl	190	UG_KG	UX			160000	12000						95.2	381	04/29/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Thallium	0.245	MG_KG	M, U		0.28	1.2	0.078						0.245	0.489	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Vanadium	8.51	MG_KG		17.6	6	580	39	Y					0.306	0.765	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS131-OC-11B	N	Zinc	16.2	MG_KG		28.6	1200	35000	2300	Y					0.306	1.22	04/29/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Aluminum	7850	MG_KG		12800		100000	7700	Y					2.52	10.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Antimony	0.474	MG_KG	J	1.87	0.9	47	3.1	Y					0.252	0.504	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Arsenic	1.44	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.151	0.504	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Barium	30.6	MG_KG		36.7	580	22000	1500	Y					0.252	2.02	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Beryllium	0.187	MG_KG	J	0.195	63	230	16	Y					0.0504	0.252	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Cadmium	0.224	MG_KG	J	0.2	3	98	7	Y	Y				0.0504	0.252	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Calcium	924	MG_KG		8470				Y					50.4	252	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Chromium	7.88	MG_KG		17.4	3.8	6.3	0.3	Y					0.101	0.504	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Cobalt	0.608	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.252	0.63	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Copper	13.7	MG_KG		17.1	700	4700	310	Y					0.202	0.504	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	HMX	167	UG_KG	U			5700000	380000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Iron	5170	MG_KG		7210	150	82000	5500	Y					1.51	5.04	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Lead	19.7	MG_KG		27.5	270	800	400	Y					0.0756	0.151	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Magnesium	228	MG_KG	J	904				Y					50.4	252	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Manganese	28.2	MG_KG		37	65	2600	180	Y					0.151	0.756	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Mercury	0.0242	MG_KG	J	0.161	1	35	2.3	Y					0.0138	0.0351	05/27/11	METAL	7471A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Nickel	2.11	MG_KG		3.11	130	2200	150	Y					0.151	0.504	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Nitroglycerin	417	UG_KG	U			8200	620						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Perchlorate	83.2	UG_KG				82000	5500	Y					1.28	10.6	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	PETN	417	UG_KG	U			160000	12000						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Potassium	237	MG_KG	J	359				Y					50.4	252	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	RDX	167	UG_KG	U			28000	6000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Selenium	0.296	MG_KG	J	1.59	1.5	580	39	Y					0.151	0.504	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Silver	0.101	MG_KG	U	0.354	3.4	580	39						0.0504	0.504	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Sodium	151	MG_KG	U	250									50.4	252	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Tetryl	167	UG_KG	U			160000	12000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Thallium	0.353	MG_KG	U		0.28	1.2	0.078						0.353	0.403	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Vanadium	11.3	MG_KG		17.6	6	580	39	Y					0.252	0.63	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133D-OC-11B	FD	Zinc	38.9	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.252	1.01	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Aluminum	4170	MG_KG		12800		100000	7700	Y					2.68	10.7	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Antimony	0.284	MG_KG	J	1.87	0.9	47	3.1	Y					0.268	0.535	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.161	0.535	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Barium	26.8	MG_KG		36.7	580	22000	1500	Y					0.268	2.14	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Beryllium	0.133	MG_KG	J	0.195	63	230	16	Y					0.0535	0.268	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Cadmium	0.259	MG_KG	J	0.2	3	98	7	Y	Y				0.0535	0.268	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Calcium	729	MG_KG		8470				Y					53.5	268	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Chromium	3.67	MG_KG		17.4	3.8	6.3	0.3	Y					0.107	0.535	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Cobalt	0.348	MG_KG	J	0.414	0.9	35	2.3	Y					0.268	0.669	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Copper	13.6	MG_KG		17.1	700	4700	310	Y					0.214	0.535	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Iron	1970	MG_KG		7210	150	82000	5500	Y					1.61	5.35	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Lead	19.9	MG_KG		27.5	270	800	400	Y					0.0803	0.161	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Magnesium	132	MG_KG	J	904				Y					53.5	268	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Manganese	30.8	MG_KG		37	65	2600	180	Y					0.161	0.803	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Mercury	0.0242	MG_KG	J	0.161	1	35	2.3	Y					0.0148	0.0377	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Nickel	1.48	MG_KG		3.11	130	2200	150	Y					0.161	0.535	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Perchlorate	37.2	UG_KG				82000	5500	Y					0.639	5.33	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	PETN	435	UG_KG	U			160000	12000						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Potassium	126	MG_KG	J	359				Y					53.5	268	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Selenium	0.236	MG_KG	J	1.59	1.5	580	39	Y					0.161	0.535	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Silver	0.107	MG_KG	U	0.354	3.4	580	39						0.0535	0.535	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Sodium	161	MG_KG	U	250									53.5	268	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Tetryl	174	UG_KG	U			160000	12000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Thallium	0.321	MG_KG	U		0.28	1.2	0.078						0.321	0.428	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Vanadium	5.3	MG_KG		17.6	6	580	39	Y					0.268	0.669	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS133-OC-11B	N	Zinc	49.2	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.268	1.07	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Aluminum	4070	MG_KG		12800		100000	7700	Y					2.48	9.9	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Antimony	0.373	MG_KG	J	1.87	0.9	47	3.1	Y					0.248	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Arsenic	0.96	MG_KG		1.17	5.8	3	0.67	Y					0.148	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Barium	26.3	MG_KG		36.7	580	22000	1500	Y					0.248	1.98	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Beryllium	0.128	MG_KG	J	0.195	63	230	16	Y					0.0495	0.248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Cadmium	0.374	MG_KG		0.2	3	98	7	Y	Y				0.0495	0.248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Calcium	229	MG_KG	J	8470				Y					49.5	248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Chromium	3.67	MG_KG		17.4	3.8	6.3	0.3	Y					0.099	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Cobalt	0.312	MG_KG	J	0.414	0.9	35	2.3	Y					0.248	0.619	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Copper	14.9	MG_KG		17.1	700	4700	310	Y					0.198	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Iron	2230	MG_KG		7210	150	82000	5500	Y					1.48	4.95	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Lead	21.9	MG_KG		27.5	270	800	400	Y					0.0743	0.148	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Magnesium	123	MG_KG	J	904				Y					49.5	248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Manganese	30.1	MG_KG		37	65	2600	180	Y					0.148	0.743	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Mercury	0.0322	MG_KG	J	0.161	1	35	2.3	Y					0.0136	0.0345	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Nickel	1.37	MG_KG		3.11	130	2200	150	Y					0.148	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Perchlorate	106	UG_KG				82000	5500	Y					1.25	10.4	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Potassium	127	MG_KG	J	359				Y					49.5	248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Selenium	0.183	MG_KG	J	1.59	1.5	580	39	Y					0.148	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Silver	0.099	MG_KG	U	0.354	3.4	580	39						0.0495	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Sodium	148	MG_KG	U	250									49.5	248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Thallium	0.396	MG_KG	U		0.28	1.2	0.078						0.396	0.396	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Vanadium	5.32	MG_KG		17.6	6	580	39	Y					0.248	0.619	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS134-IC-11B	N	Zinc	41.1	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.248	0.99	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Aluminum	4550	MG_KG		12800		100000	7700	Y					2.63	10.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Antimony	0.421	MG_KG	J	1.87	0.9	47	3.1	Y					0.263	0.526	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Arsenic	0.997	MG_KG		1.17	5.8	3	0.67	Y					0.158	0.526	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Barium	28.2	MG_KG		36.7	580	22000	1500	Y					0.263	2.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Beryllium	0.153	MG_KG	J	0.195	63	230	16	Y					0.0526	0.263	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Cadmium	0.204	MG_KG	J	0.2	3	98	7	Y	Y				0.0526	0.263	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Calcium	176	MG_KG	J	8470				Y					52.6	263	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Chromium	3.33	MG_KG		17.4	3.8	6.3	0.3	Y					0.105	0.526	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Cobalt	0.328	MG_KG	J	0.414	0.9	35	2.3	Y					0.263	0.657	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Copper	10.8	MG_KG		17.1	700	4700	310	Y					0.21	0.526	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Iron	2140	MG_KG		7210	150	82000	5500	Y					1.58	5.26	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Lead	15.9	MG_KG		27.5	270	800	400	Y					0.0789	0.158	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Magnesium	141	MG_KG	J	904				Y					52.6	263	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Manganese	30.4	MG_KG		37	65	2600	180	Y					0.158	0.789	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Mercury	0.0251	MG_KG	J	0.161	1	35	2.3	Y					0.012	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Nickel	1.45	MG_KG		3.11	130	2200	150	Y					0.158	0.526	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Perchlorate	205	UG_KG				82000	5500	Y					3.14	26.2	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Potassium	149	MG_KG	J	359				Y					52.6	263	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Selenium	0.224	MG_KG	J	1.59	1.5	580	39	Y					0.158	0.526	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Silver	0.105	MG_KG	U	0.354	3.4	580	39						0.0526	0.526	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Sodium	158	MG_KG	U	250									52.6	263	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Thallium	0.368	MG_KG	U		0.28	1.2	0.078						0.368	0.421	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Vanadium	5.23	MG_KG		17.6	6	580	39	Y					0.263	0.657	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS135-OC-11B	N	Zinc	29.1	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.263	1.05	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Aluminum	4900	MG_KG		12800		100000	7700	Y					2.74	11	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Antimony	0.438	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.548	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Arsenic	1	MG_KG		1.17	5.8	3	0.67	Y					0.164	0.548	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Barium	30.9	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Beryllium	0.157	MG_KG	J	0.195	63	230	16	Y					0.0548	0.274	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Cadmium	0.166	MG_KG	J	0.2	3	98	7	Y					0.0548	0.274	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Calcium	387	MG_KG		8470				Y					54.8	274	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Chromium	3.71	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.548	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Cobalt	0.407	MG_KG	J	0.414	0.9	35	2.3	Y					0.274	0.685	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Copper	7.9	MG_KG		17.1	700	4700	310	Y					0.219	0.548	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Iron	2610	MG_KG		7210	150	82000	5500	Y					1.64	5.48	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Lead	13.3	MG_KG		27.5	270	800	400	Y					0.0822	0.164	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Magnesium	199	MG_KG	J	904				Y					54.8	274	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Manganese	36.2	MG_KG		37	65	2600	180	Y					0.164	0.822	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Mercury	0.0227	MG_KG	J	0.161	1	35	2.3	Y					0.0139	0.0352	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Nickel	1.81	MG_KG		3.11	130	2200	150	Y					0.164	0.548	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Perchlorate	232	UG_KG				82000	5500	Y					3.2	26.7	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Potassium	185	MG_KG	J	359				Y					54.8	274	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Selenium	0.28	MG_KG	J	1.59	1.5	580	39	Y					0.164	0.548	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.0548	0.548	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Sodium	164	MG_KG	U	250									54.8	274	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Thallium	0.383	MG_KG	U		0.28	1.2	0.078						0.383	0.438	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Vanadium	5.8	MG_KG		17.6	6	580	39	Y					0.274	0.685	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS136-IC-11B	N	Zinc	20.3	MG_KG	J	28.6	1200	35000	2300	Y					0.274	1.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Aluminum	4090	MG_KG		12800		100000	7700	Y					2.78	11.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Antimony	0.445	MG_KG	UJ	1.87	0.9	47	3.1						0.278	0.556	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Arsenic	1.11	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Barium	20.7	MG_KG		36.7	580	22000	1500	Y					0.278	2.22	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Beryllium	0.133	MG_KG	J	0.195	63	230	16	Y					0.0556	0.278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Cadmium	0.131	MG_KG	J	0.2	3	98	7	Y					0.0556	0.278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Calcium	289	MG_KG		8470				Y					55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Chromium	3.03	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Cobalt	0.311	MG_KG	J	0.414	0.9	35	2.3	Y					0.278	0.695	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Copper	5.39	MG_KG		17.1	700	4700	310	Y					0.222	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Iron	1840	MG_KG		7210	150	82000	5500	Y					1.67	5.56	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Lead	9.53	MG_KG		27.5	270	800	400	Y					0.0834	0.167	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Magnesium	136	MG_KG	J	904				Y					55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Manganese	28.1	MG_KG		37	65	2600	180	Y					0.167	0.834	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Mercury	0.0278	MG_KG	J	0.161	1	35	2.3	Y					0.0147	0.0372	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Nickel	1.37	MG_KG		3.11	130	2200	150	Y					0.167	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Perchlorate	124	UG_KG				82000	5500	Y					3.27	27.2	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	PETN	385	UG_KG	U			160000	12000						192	769	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Potassium	177	MG_KG	J	359				Y					55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	RDX	154	UG_KG	U			28000	6000						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Selenium	0.191	MG_KG	J	1.59	1.5	580	39	Y					0.167	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0556	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Sodium	167	MG_KG	U	250									55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Thallium	0.389	MG_KG	U		0.28	1.2	0.078						0.389	0.445	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Vanadium	4.75	MG_KG		17.6	6	580	39	Y					0.278	0.695	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS137-OC-11B	N	Zinc	18.6	MG_KG	J	28.6	1200	35000	2300	Y					0.278	1.11	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Aluminum	5400	MG_KG		12800		100000	7700	Y					2.61	10.4	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Antimony	0.417	MG_KG	UJ	1.87	0.9	47	3.1						0.261	0.521	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Arsenic	1.31	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.156	0.521	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Barium	27.2	MG_KG		36.7	580	22000	1500	Y					0.261	2.09	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Beryllium	0.208	MG_KG	J	0.195	63	230	16	Y	Y				0.0521	0.261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Cadmium	0.125	MG_KG	J	0.2	3	98	7	Y					0.0521	0.261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Calcium	208	MG_KG	J	8470				Y					52.1	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Chromium	3.82	MG_KG		17.4	3.8	6.3	0.3	Y					0.104	0.521	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Cobalt	0.422	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.261	0.652	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Copper	5.64	MG_KG		17.1	700	4700	310	Y					0.209	0.521	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Iron	2660	MG_KG		7210	150	82000	5500	Y					1.56	5.21	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Lead	13.5	MG_KG		27.5	270	800	400	Y					0.0782	0.156	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Magnesium	177	MG_KG	J	904				Y					52.1	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Manganese	27.4	MG_KG		37	65	2600	180	Y					0.156	0.782	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Mercury	0.0214	MG_KG	J	0.161	1	35	2.3	Y					0.0129	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Nickel	2	MG_KG		3.11	130	2200	150	Y					0.156	0.521	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Perchlorate	89.4	UG_KG				82000	5500	Y					0.635	5.29	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	PETN	435	UG_KG	U			160000	12000						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Potassium	168	MG_KG	J	359				Y					52.1	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Selenium	0.261	MG_KG	U	1.59	1.5	580	39						0.156	0.521	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Silver	0.104	MG_KG	U	0.354	3.4	580	39						0.0521	0.521	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Sodium	156	MG_KG	U	250									52.1	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Tetryl	174	UG_KG	U			160000	12000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Thallium	0.521	MG_KG	U		0.28	1.2	0.078						0.521	0.834	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Vanadium	6.19	MG_KG		17.6	6	580	39	Y					0.261	0.652	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS138-IC-11B	N	Zinc	15.7	MG_KG	J	28.6	1200	35000	2300	Y					0.261	1.04	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	2-Amino-4,6-dinitrotoluene	305	UG_KG	J			230000	15000	Y					90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	4-Amino-2,6-dinitrotoluene	365	UG_KG	J			230000	15000	Y					90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Aluminum	5080	MG_KG		12800		100000	7700	Y					2.65	10.6	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Antimony	0.423	MG_KG	UJ	1.87	0.9	47	3.1						0.265	0.529	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Arsenic	0.905	MG_KG		1.17	5.8	3	0.67	Y					0.159	0.529	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Barium	29	MG_KG		36.7	580	22000	1500	Y					0.265	2.12	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Beryllium	0.159	MG_KG	J	0.195	63	230	16	Y					0.0529	0.265	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Cadmium	0.161	MG_KG	J	0.2	3	98	7	Y					0.0529	0.265	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Calcium	191	MG_KG	J	8470				Y					52.9	265	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Chromium	4.08	MG_KG		17.4	3.8	6.3	0.3	Y					0.106	0.529	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Cobalt	0.403	MG_KG	J	0.414	0.9	35	2.3	Y					0.265	0.661	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Copper	9.81	MG_KG		17.1	700	4700	310	Y					0.212	0.529	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Iron	2510	MG_KG		7210	150	82000	5500	Y					1.59	5.29	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Lead	17	MG_KG		27.5	270	800	400	Y					0.0794	0.159	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Magnesium	153	MG_KG	J	904				Y					52.9	265	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Manganese	16.4	MG_KG		37	65	2600	180	Y					0.159	0.794	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Mercury	0.0162	MG_KG	J	0.161	1	35	2.3	Y					0.0113	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Nickel	1.71	MG_KG		3.11	130	2200	150	Y					0.159	0.529	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Perchlorate	205	UG_KG				82000	5500	Y					3.13	26.1	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Potassium	172	MG_KG	J	359				Y					52.9	265	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Selenium	0.265	MG_KG	U	1.59	1.5	580	39						0.159	0.529	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Silver	0.106	MG_KG	U	0.354	3.4	580	39						0.0529	0.529	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Sodium	159	MG_KG	U	250									52.9	265	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Thallium	0.423	MG_KG	U		0.28	1.2	0.078						0.423	0.423	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Vanadium	5.53	MG_KG		17.6	6	580	39	Y					0.265	0.661	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS139-OC-11B	N	Zinc	25.9	MG_KG	J	28.6	1200	35000	2300	Y					0.265	1.06	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	1,3,5-Trinitrobenzene	242	UG_KG	J			3200000	220000	Y					87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	2-Nitrotoluene	365	UG_KG	J			15000	3200	Y					87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Aluminum	9300	MG_KG		12800		100000	7700	Y					2.61	10.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Antimony	0.418	MG_KG	UJ	1.87	0.9	47	3.1						0.261	0.523	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Arsenic	1.43	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.157	0.523	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Barium	37.3	MG_KG		36.7	580	22000	1500	Y	Y				0.261	2.09	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Beryllium	0.194	MG_KG	J	0.195	63	230	16	Y					0.0523	0.261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Cadmium	0.139	MG_KG	J	0.2	3	98	7	Y					0.0523	0.261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Calcium	347	MG_KG		8470				Y					52.3	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Chromium	8.42	MG_KG		17.4	3.8	6.3	0.3	Y					0.105	0.523	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Cobalt	0.629	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.261	0.654	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Copper	8.14	MG_KG		17.1	700	4700	310	Y					0.209	0.523	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Iron	4660	MG_KG		7210	150	82000	5500	Y					1.57	5.23	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Lead	17.4	MG_KG		27.5	270	800	400	Y					0.0784	0.157	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Magnesium	316	MG_KG		904				Y					52.3	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Manganese	22.5	MG_KG		37	65	2600	180	Y					0.157	0.784	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Mercury	0.0266	MG_KG	J	0.161	1	35	2.3	Y					0.0133	0.0336	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Nickel	2.19	MG_KG		3.11	130	2200	150	Y					0.157	0.523	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Perchlorate	100	UG_KG				82000	5500	Y					3.06	25.5	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	PETN	435	UG_KG	U			160000	12000						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Potassium	253	MG_KG	J	359				Y					52.3	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Selenium	0.239	MG_KG	J	1.59	1.5	580	39	Y					0.157	0.523	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Silver	0.105	MG_KG	U	0.354	3.4	580	39						0.0523	0.523	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Sodium	157	MG_KG	U	250									52.3	261	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Tetryl	174	UG_KG	U			160000	12000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Thallium	0.418	MG_KG	U		0.28	1.2	0.078						0.418	0.418	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Vanadium	11.1	MG_KG		17.6	6	580	39	Y					0.261	0.654	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS140-IC-11B	N	Zinc	19.3	MG_KG	J	28.6	1200	35000	2300	Y					0.261	1.05	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Aluminum	4090	MG_KG		12800		100000	7700	Y					2.57	10.3	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Antimony	0.56	MG_KG	J	1.87	0.9	47	3.1	Y					0.257	0.514	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Arsenic	0.896	MG_KG		1.17	5.8	3	0.67	Y					0.154	0.514	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Barium	36	MG_KG		36.7	580	22000	1500	Y					0.257	2.06	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Beryllium	0.124	MG_KG	J	0.195	63	230	16	Y					0.0514	0.257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Cadmium	0.53	MG_KG		0.2	3	98	7	Y	Y				0.0514	0.257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Calcium	182	MG_KG	J	8470				Y					51.4	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Chromium	3.87	MG_KG		17.4	3.8	6.3	0.3	Y					0.103	0.514	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Cobalt	0.379	MG_KG	J	0.414	0.9	35	2.3	Y					0.257	0.643	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Copper	19.1	MG_KG		17.1	700	4700	310	Y	Y				0.206	0.514	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	HMX	160	UG_KG	U			5700000	380000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Iron	2960	MG_KG		7210	150	82000	5500	Y					1.54	5.14	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Lead	63.2	MG_KG		27.5	270	800	400	Y	Y				0.0771	0.154	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Magnesium	126	MG_KG	J	904				Y					51.4	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Manganese	31	MG_KG		37	65	2600	180	Y					0.154	0.771	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Mercury	0.0202	MG_KG	J	0.161	1	35	2.3	Y					0.0116	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Nickel	1.59	MG_KG		3.11	130	2200	150	Y					0.154	0.514	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Perchlorate	89.9	UG_KG				82000	5500	Y					1.22	10.1	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	PETN	400	UG_KG	U			160000	12000						200	800	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Potassium	128	MG_KG	J	359				Y					51.4	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	RDX	160	UG_KG	U			28000	6000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Selenium	0.246	MG_KG	J	1.59	1.5	580	39	Y					0.154	0.514	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Silver	0.103	MG_KG	U	0.354	3.4	580	39						0.0514	0.514	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Sodium	154	MG_KG	U	250									51.4	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Tetryl	160	UG_KG	U			160000	12000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Thallium	0.309	MG_KG	U		0.28	1.2	0.078						0.309	0.411	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Vanadium	5.18	MG_KG		17.6	6	580	39	Y					0.257	0.643	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS141-OC-11B	N	Zinc	76.5	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.257	1.03	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Aluminum	6250	MG_KG		12800		100000	7700	Y					2.62	10.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Antimony	0.419	MG_KG	UJ	1.87	0.9	47	3.1						0.262	0.524	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.157	0.524	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Barium	26.3	MG_KG		36.7	580	22000	1500	Y					0.262	2.09	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Beryllium	0.154	MG_KG	J	0.195	63	230	16	Y					0.0524	0.262	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Cadmium	0.179	MG_KG	J	0.2	3	98	7	Y					0.0524	0.262	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Calcium	186	MG_KG	J	8470				Y					52.4	262	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Chromium	5.77	MG_KG		17.4	3.8	6.3	0.3	Y					0.105	0.524	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Cobalt	0.487	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.262	0.654	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Copper	12.6	MG_KG		17.1	700	4700	310	Y					0.209	0.524	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	HMX	160	UG_KG	U			5700000	380000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Iron	4180	MG_KG		7210	150	82000	5500	Y					1.57	5.24	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Lead	16.4	MG_KG		27.5	270	800	400	Y					0.0785	0.157	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Magnesium	195	MG_KG	J	904				Y					52.4	262	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Manganese	22.2	MG_KG		37	65	2600	180	Y					0.157	0.785	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Mercury	0.0187	MG_KG	J	0.161	1	35	2.3	Y					0.00995	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Nickel	1.78	MG_KG		3.11	130	2200	150	Y					0.157	0.524	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Perchlorate	56.7	UG_KG				82000	5500	Y					0.613	5.1	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	PETN	400	UG_KG	U			160000	12000						200	800	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Potassium	183	MG_KG	J	359				Y					52.4	262	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	RDX	160	UG_KG	U			28000	6000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Selenium	0.186	MG_KG	J	1.59	1.5	580	39	Y					0.157	0.524	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Silver	0.105	MG_KG	U	0.354	3.4	580	39						0.0524	0.524	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Sodium	157	MG_KG	U	250									52.4	262	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Tetryl	160	UG_KG	U			160000	12000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Thallium	0.314	MG_KG	U		0.28	1.2	0.078						0.314	0.419	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Vanadium	7.97	MG_KG		17.6	6	580	39	Y					0.262	0.654	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS142-IC-11B	N	Zinc	31.2	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.262	1.05	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Aluminum	5330	MG_KG		12800		100000	7700	Y					2.58	10.3	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Antimony	0.413	MG_KG	UJ	1.87	0.9	47	3.1						0.258	0.517	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Arsenic	0.983	MG_KG		1.17	5.8	3	0.67	Y					0.155	0.517	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Barium	24.1	MG_KG		36.7	580	22000	1500	Y					0.258	2.07	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Beryllium	0.133	MG_KG	J	0.195	63	230	16	Y					0.0517	0.258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Cadmium	0.22	MG_KG	J	0.2	3	98	7	Y	Y				0.0517	0.258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Calcium	140	MG_KG	J	8470				Y					51.7	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Chromium	4.83	MG_KG		17.4	3.8	6.3	0.3	Y					0.103	0.517	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Cobalt	0.531	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.258	0.646	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Copper	9.67	MG_KG		17.1	700	4700	310	Y					0.207	0.517	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	HMX	200	UG_KG	U			5700000	380000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Iron	3400	MG_KG		7210	150	82000	5500	Y					1.55	5.17	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Lead	28.2	MG_KG		27.5	270	800	400	Y	Y				0.0775	0.155	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Magnesium	186	MG_KG	J	904				Y					51.7	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Manganese	28.4	MG_KG		37	65	2600	180	Y					0.155	0.775	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Mercury	0.0217	MG_KG	J	0.161	1	35	2.3	Y					0.0141	0.0358	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Nickel	1.96	MG_KG		3.11	130	2200	150	Y					0.155	0.517	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Perchlorate	93.3	UG_KG				82000	5500	Y					1.22	10.1	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	PETN	500	UG_KG	U			160000	12000						250	1000	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Potassium	157	MG_KG	J	359				Y					51.7	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	RDX	200	UG_KG	U			28000	6000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Selenium	0.258	MG_KG	U	1.59	1.5	580	39						0.155	0.517	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Silver	0.103	MG_KG	U	0.354	3.4	580	39						0.0517	0.517	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Sodium	155	MG_KG	U	250									51.7	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Tetryl	200	UG_KG	U			160000	12000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Thallium	0.31	MG_KG	U		0.28	1.2	0.078						0.31	0.413	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Vanadium	6.61	MG_KG		17.6	6	580	39	Y					0.258	0.646	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS143-OC-11B	N	Zinc	52.4	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.258	1.03	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Aluminum	3850	MG_KG		12800		100000	7700	Y					2.55	10.2	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Antimony	0.408	MG_KG	UJ	1.87	0.9	47	3.1						0.255	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Arsenic	0.875	MG_KG		1.17	5.8	3	0.67	Y					0.153	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Barium	40.8	MG_KG		36.7	580	22000	1500	Y	Y				0.255	2.04	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Beryllium	0.128	MG_KG	J	0.195	63	230	16	Y					0.051	0.255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Cadmium	0.181	MG_KG	J	0.2	3	98	7	Y					0.051	0.255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Calcium	92.3	MG_KG	J	8470				Y					51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Chromium	3.39	MG_KG		17.4	3.8	6.3	0.3	Y					0.102	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Cobalt	0.297	MG_KG	J	0.414	0.9	35	2.3	Y					0.255	0.638	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Copper	11.4	MG_KG		17.1	700	4700	310	Y					0.204	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Iron	1920	MG_KG		7210	150	82000	5500	Y					1.53	5.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Lead	18.2	MG_KG		27.5	270	800	400	Y					0.0766	0.153	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Magnesium	112	MG_KG	J	904				Y					51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Manganese	14.9	MG_KG		37	65	2600	180	Y					0.153	0.766	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Mercury	0.0205	MG_KG	J	0.161	1	35	2.3	Y					0.0141	0.0357	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Nickel	1.34	MG_KG		3.11	130	2200	150	Y					0.153	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Perchlorate	61.8	UG_KG				82000	5500	Y					1.21	10.1	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	PETN	435	UG_KG	U			160000	12000						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Potassium	120	MG_KG	J	359				Y					51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Selenium	0.172	MG_KG	J	1.59	1.5	580	39	Y					0.153	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Silver	0.102	MG_KG	U	0.354	3.4	580	39						0.051	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Sodium	153	MG_KG	U	250									51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Tetryl	174	UG_KG	U			160000	12000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Thallium	0.357	MG_KG	U		0.28	1.2	0.078						0.357	0.408	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Vanadium	4.42	MG_KG		17.6	6	580	39	Y					0.255	0.638	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS144-IC-11B	N	Zinc	31.3	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.255	1.02	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Aluminum	4780	MG_KG		12800		100000	7700	Y					2.43	9.73	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Antimony	0.389	MG_KG	UJ	1.87	0.9	47	3.1						0.243	0.486	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Arsenic	1.32	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.146	0.486	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Barium	14	MG_KG		36.7	580	22000	1500	Y					0.243	1.95	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Beryllium	0.11	MG_KG	J	0.195	63	230	16	Y					0.0486	0.243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Cadmium	0.0907	MG_KG	J	0.2	3	98	7	Y					0.0486	0.243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Calcium	205	MG_KG	J	8470				Y					48.6	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Chromium	4.56	MG_KG		17.4	3.8	6.3	0.3	Y					0.0973	0.486	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Cobalt	0.283	MG_KG	J	0.414	0.9	35	2.3	Y					0.243	0.608	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Copper	8.28	MG_KG		17.1	700	4700	310	Y					0.195	0.486	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Iron	3390	MG_KG		7210	150	82000	5500	Y					1.46	4.86	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Lead	13	MG_KG		27.5	270	800	400	Y					0.0729	0.146	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Magnesium	159	MG_KG	J	904				Y					48.6	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Manganese	31.6	MG_KG		37	65	2600	180	Y					0.146	0.729	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Mercury	0.0225	MG_KG	J	0.161	1	35	2.3	Y					0.0137	0.0347	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Nickel	1.22	MG_KG		3.11	130	2200	150	Y					0.146	0.486	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Perchlorate	51.3	UG_KG				82000	5500	Y					0.61	5.08	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Potassium	214	MG_KG	J	359				Y					48.6	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Selenium	0.153	MG_KG	J	1.59	1.5	580	39	Y					0.146	0.486	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Silver	0.0973	MG_KG	U	0.354	3.4	580	39						0.0486	0.486	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Sodium	146	MG_KG	U	250									48.6	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Thallium	0.243	MG_KG	U		0.28	1.2	0.078						0.243	0.389	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Vanadium	6.82	MG_KG		17.6	6	580	39	Y					0.243	0.608	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS145-OC-11B	N	Zinc	15.6	MG_KG	J	28.6	1200	35000	2300	Y					0.243	0.973	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Aluminum	4600	MG_KG		12800		100000	7700	Y					2.48	9.91	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Antimony	0.396	MG_KG	UJ	1.87	0.9	47	3.1						0.248	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Arsenic	0.997	MG_KG		1.17	5.8	3	0.67	Y					0.149	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Barium	17	MG_KG		36.7	580	22000	1500	Y					0.248	1.98	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Beryllium	0.115	MG_KG	J	0.195	63	230	16	Y					0.0495	0.248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Cadmium	0.107	MG_KG	J	0.2	3	98	7	Y					0.0495	0.248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Calcium	216	MG_KG	J	8470				Y					49.5	248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Chromium	3.76	MG_KG		17.4	3.8	6.3	0.3	Y					0.0991	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Cobalt	0.271	MG_KG	J	0.414	0.9	35	2.3	Y					0.248	0.619	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Copper	22.3	MG_KG		17.1	700	4700	310	Y	Y				0.198	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Iron	2750	MG_KG		7210	150	82000	5500	Y					1.49	4.95	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Lead	20.1	MG_KG		27.5	270	800	400	Y					0.0743	0.149	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Magnesium	143	MG_KG	J	904				Y					49.5	248	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Manganese	31.5	MG_KG		37	65	2600	180	Y					0.149	0.743	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Mercury	0.0235	MG_KG	J	0.161	1	35	2.3	Y					0.0125	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Nickel	1.21	MG_KG		3.11	130	2200	150	Y					0.149	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Perchlorate	29.8	UG_KG	J			82000	5500	Y					0.615	5.13	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	PETN	455	UG_KG	U			160000	12000						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Potassium	181	MG_KG	J	359				Y					49.5	248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	RDX	182	UG_KG	U			28000	6000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Selenium	0.201	MG_KG	J	1.59	1.5	580	39	Y					0.149	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Silver	0.0991	MG_KG	U	0.354	3.4	580	39						0.0495	0.495	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Sodium	149	MG_KG	U	250									49.5	248	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Thallium	0.347	MG_KG	U		0.28	1.2	0.078						0.347	0.396	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Vanadium	6.53	MG_KG		17.6	6	580	39	Y					0.248	0.619	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146D-OC-11B	FD	Zinc	21.6	MG_KG	J	28.6	1200	35000	2300	Y					0.248	0.991	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Aluminum	4090	MG_KG		12800		100000	7700	Y					2.53	10.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Antimony	0.404	MG_KG	UJ	1.87	0.9	47	3.1						0.253	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Arsenic	0.881	MG_KG		1.17	5.8	3	0.67	Y					0.152	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Barium	14.6	MG_KG		36.7	580	22000	1500	Y					0.253	2.02	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Beryllium	0.0969	MG_KG	J	0.195	63	230	16	Y					0.0505	0.253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Cadmium	0.0924	MG_KG	J	0.2	3	98	7	Y					0.0505	0.253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Calcium	194	MG_KG	J	8470				Y					50.5	253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Chromium	3.52	MG_KG		17.4	3.8	6.3	0.3	Y					0.101	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Cobalt	0.505	MG_KG	U	0.414	0.9	35	2.3						0.253	0.631	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Copper	25.7	MG_KG		17.1	700	4700	310	Y	Y				0.202	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Iron	2420	MG_KG		7210	150	82000	5500	Y					1.52	5.05	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Lead	21.6	MG_KG		27.5	270	800	400	Y					0.0758	0.152	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Magnesium	130	MG_KG	J	904				Y					50.5	253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Manganese	30.9	MG_KG		37	65	2600	180	Y					0.152	0.758	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Mercury	0.0214	MG_KG	J	0.161	1	35	2.3	Y					0.0121	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Nickel	1.08	MG_KG		3.11	130	2200	150	Y					0.152	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Perchlorate	273	UG_KG	J			82000	5500	Y					6.12	51	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Potassium	164	MG_KG	J	359				Y					50.5	253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Selenium	0.228	MG_KG	J	1.59	1.5	580	39	Y					0.152	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Silver	0.101	MG_KG	U	0.354	3.4	580	39						0.0505	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Sodium	152	MG_KG	U	250									50.5	253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Thallium	0.303	MG_KG	U		0.28	1.2	0.078						0.303	0.404	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Vanadium	5.89	MG_KG		17.6	6	580	39	Y					0.253	0.631	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS146-OC-11B	N	Zinc	17.4	MG_KG	J	28.6	1200	35000	2300	Y					0.253	1.01	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Aluminum	13400	MG_KG		12800		100000	7700	Y	Y			Y	2.58	10.3	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Antimony	0.412	MG_KG	UJ	1.87	0.9	47	3.1						0.258	0.516	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Arsenic	2.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.155	0.516	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Barium	42.9	MG_KG		36.7	580	22000	1500	Y	Y				0.258	2.06	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Beryllium	0.299	MG_KG		0.195	63	230	16	Y	Y				0.0516	0.258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Cadmium	0.0625	MG_KG	J	0.2	3	98	7	Y					0.0516	0.258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Calcium	491	MG_KG		8470				Y					51.6	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Chromium	10.4	MG_KG		17.4	3.8	6.3	0.3	Y					0.103	0.516	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Cobalt	1.08	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.258	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Copper	3.06	MG_KG		17.1	700	4700	310	Y					0.206	0.516	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Iron	6950	MG_KG		7210	150	82000	5500	Y					1.55	5.16	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Lead	8.06	MG_KG		27.5	270	800	400	Y					0.0773	0.155	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Magnesium	413	MG_KG		904				Y					51.6	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Manganese	11.1	MG_KG		37	65	2600	180	Y					0.155	0.773	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Mercury	0.015	MG_KG	J	0.161	1	35	2.3	Y					0.0136	0.0345	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Nickel	3.4	MG_KG		3.11	130	2200	150	Y	Y				0.155	0.516	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Perchlorate	42.3	UG_KG				82000	5500	Y					0.606	5.05	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Potassium	304	MG_KG		359				Y					51.6	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Selenium	0.208	MG_KG	J	1.59	1.5	580	39	Y					0.155	0.516	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Silver	0.155	MG_KG	U	0.354	3.4	580	39						0.155	0.516	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Sodium	155	MG_KG	U	250									51.6	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	05/27/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Thallium	0.722	MG_KG	U		0.28	1.2	0.078						0.722	0.825	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Vanadium	16.6	MG_KG		17.6	6	580	39	Y					0.258	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS147-OC-11B	N	Zinc	10.8	MG_KG	J	28.6	1200	35000	2300	Y					0.258	1.03	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Aluminum	5630	MG_KG		12800		100000	7700	Y					2.57	10.3	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Antimony	0.412	MG_KG	UJ	1.87	0.9	47	3.1						0.257	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Arsenic	1	MG_KG		1.17	5.8	3	0.67	Y					0.154	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Barium	23.3	MG_KG		36.7	580	22000	1500	Y					0.257	2.06	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Beryllium	0.149	MG_KG	J	0.195	63	230	16	Y					0.0515	0.257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Cadmium	0.0973	MG_KG	J	0.2	3	98	7	Y					0.0515	0.257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Calcium	178	MG_KG	J	8470				Y					51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Chromium	4.5	MG_KG		17.4	3.8	6.3	0.3	Y					0.103	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Cobalt	0.453	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.257	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Copper	14	MG_KG		17.1	700	4700	310	Y					0.206	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Iron	3320	MG_KG		7210	150	82000	5500	Y					1.54	5.15	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Lead	12.4	MG_KG		27.5	270	800	400	Y					0.0772	0.154	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Magnesium	171	MG_KG	J	904				Y					51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Manganese	20.5	MG_KG		37	65	2600	180	Y					0.154	0.772	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Mercury	0.0174	MG_KG	J	0.161	1	35	2.3	Y					0.0128	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Nickel	1.72	MG_KG		3.11	130	2200	150	Y					0.154	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Perchlorate	32.9	UG_KG				82000	5500	Y					0.609	5.07	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Potassium	158	MG_KG	J	359				Y					51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Selenium	0.199	MG_KG	J	1.59	1.5	580	39	Y					0.154	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Silver	0.103	MG_KG	U	0.354	3.4	580	39						0.103	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Sodium	154	MG_KG	U	250									51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Thallium	0.618	MG_KG	U		0.28	1.2	0.078						0.618	0.824	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Vanadium	7.36	MG_KG		17.6	6	580	39	Y					0.257	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS148-IC-11B	N	Zinc	20.3	MG_KG	J	28.6	1200	35000	2300	Y					0.257	1.03	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Aluminum	5480	MG_KG		12800		100000	7700	Y					2.6	10.4	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Antimony	0.415	MG_KG	UJ	1.87	0.9	47	3.1						0.26	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Arsenic	0.959	MG_KG		1.17	5.8	3	0.67	Y					0.156	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Barium	18.5	MG_KG		36.7	580	22000	1500	Y					0.26	2.08	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Beryllium	0.118	MG_KG	J	0.195	63	230	16	Y					0.0519	0.26	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Cadmium	0.159	MG_KG	J	0.2	3	98	7	Y					0.0519	0.26	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Calcium	299	MG_KG		8470				Y					51.9	260	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Chromium	4.18	MG_KG		17.4	3.8	6.3	0.3	Y					0.104	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Cobalt	0.34	MG_KG	J	0.414	0.9	35	2.3	Y					0.26	0.649	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Copper	8.63	MG_KG		17.1	700	4700	310	Y					0.208	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	HMX	200	UG_KG	U			5700000	380000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Iron	2930	MG_KG		7210	150	82000	5500	Y					1.56	5.19	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Lead	14.3	MG_KG		27.5	270	800	400	Y					0.0779	0.156	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Magnesium	175	MG_KG	J	904				Y					51.9	260	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Manganese	48	MG_KG		37	65	2600	180	Y	Y				0.156	0.779	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Mercury	0.0266	MG_KG	J	0.161	1	35	2.3	Y					0.0137	0.0347	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Nickel	1.53	MG_KG		3.11	130	2200	150	Y					0.156	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Perchlorate	112	UG_KG				82000	5500	Y					3.05	25.4	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	PETN	500	UG_KG	U			160000	12000						250	1000	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Potassium	219	MG_KG	J	359				Y					51.9	260	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	RDX	200	UG_KG	U			28000	6000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Selenium	0.281	MG_KG	J	1.59	1.5	580	39	Y					0.156	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Silver	0.104	MG_KG	U	0.354	3.4	580	39						0.0519	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Sodium	156	MG_KG	U	250									51.9	260	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Tetryl	200	UG_KG	U			160000	12000						100	400	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Thallium	0.26	MG_KG	U		0.28	1.2	0.078						0.26	0.415	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Vanadium	7.13	MG_KG		17.6	6	580	39	Y					0.26	0.649	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS149-OC-11B	N	Zinc	26.4	MG_KG	J	28.6	1200	35000	2300	Y					0.26	1.04	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	05/27/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Aluminum	7060	MG_KG		12800		100000	7700	Y					2.5	10	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Antimony	0.4	MG_KG	UJ	1.87	0.9	47	3.1						0.25	0.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.15	0.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Barium	20.9	MG_KG		36.7	580	22000	1500	Y					0.25	2	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Beryllium	0.148	MG_KG	J	0.195	63	230	16	Y					0.05	0.25	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Cadmium	0.0746	MG_KG	J	0.2	3	98	7	Y					0.05	0.25	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Calcium	275	MG_KG		8470				Y					50	250	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Chromium	6.08	MG_KG		17.4	3.8	6.3	0.3	Y					0.1	0.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Cobalt	0.516	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.25	0.625	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Copper	7.99	MG_KG		17.1	700	4700	310	Y					0.2	0.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Iron	4330	MG_KG		7210	150	82000	5500	Y					1.5	5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Lead	12.7	MG_KG		27.5	270	800	400	Y					0.075	0.15	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Magnesium	250	MG_KG	J	904				Y					50	250	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Manganese	16	MG_KG		37	65	2600	180	Y					0.15	0.75	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Mercury	0.0194	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Nickel	1.93	MG_KG		3.11	130	2200	150	Y					0.15	0.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Perchlorate	34.7	UG_KG				82000	5500	Y					0.606	5.05	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	PETN	417	UG_KG	U			160000	12000						208	833	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Potassium	220	MG_KG	J	359				Y					50	250	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	RDX	167	UG_KG	U			28000	6000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Selenium	0.195	MG_KG	J	1.59	1.5	580	39	Y					0.15	0.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Silver	0.1	MG_KG	U	0.354	3.4	580	39						0.1	0.5	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Sodium	150	MG_KG	U	250									50	250	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Thallium	0.35	MG_KG	U		0.28	1.2	0.078						0.35	0.4	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Vanadium	9.78	MG_KG		17.6	6	580	39	Y					0.25	0.625	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS150-IC-11B	N	Zinc	20.2	MG_KG	J	28.6	1200	35000	2300	Y					0.25	1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Aluminum	4800	MG_KG		12800		100000	7700	Y					2.58	10.3	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Antimony	0.412	MG_KG	UJ	1.87	0.9	47	3.1						0.258	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Arsenic	1.05	MG_KG		1.17	5.8	3	0.67	Y					0.155	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Barium	45.2	MG_KG		36.7	580	22000	1500	Y	Y				0.258	2.06	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Beryllium	0.128	MG_KG	J	0.195	63	230	16	Y					0.0515	0.258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Cadmium	0.0971	MG_KG	J	0.2	3	98	7	Y					0.0515	0.258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Calcium	364	MG_KG		8470				Y					51.5	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Chromium	3.82	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.103	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Cobalt	0.341	MG_KG	J	0.414	0.9	35	2.3	Y					0.258	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Copper	7.69	MG_KG		17.1	700	4700	310	Y					0.206	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Iron	2710	MG_KG		7210	150	82000	5500	Y					1.55	5.15	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Lead	18.4	MG_KG	J	27.5	270	800	400	Y					0.0773	0.155	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Magnesium	148	MG_KG	J	904				Y					51.5	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Manganese	23.1	MG_KG		37	65	2600	180	Y					0.155	0.773	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Mercury	0.0195	MG_KG	J	0.161	1	35	2.3	Y					0.012	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Nickel	1.52	MG_KG		3.11	130	2200	150	Y					0.155	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Perchlorate	36.5	UG_KG				82000	5500	Y					0.609	5.07	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Potassium	198	MG_KG	J	359				Y					51.5	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Selenium	0.212	MG_KG	J	1.59	1.5	580	39	Y					0.155	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Silver	0.103	MG_KG	U	0.354	3.4	580	39						0.0515	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Sodium	155	MG_KG	U	250									51.5	258	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Thallium	0.361	MG_KG	U		0.28	1.2	0.078						0.361	0.412	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Vanadium	6.5	MG_KG		17.6	6	580	39	Y					0.258	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS151-OC-11B	N	Zinc	17.2	MG_KG	J	28.6	1200	35000	2300	Y					0.258	1.03	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Aluminum	4630	MG_KG		12800		100000	7700	Y					2.57	10.3	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Antimony	0.412	MG_KG	UJ	1.87	0.9	47	3.1						0.257	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Arsenic	0.979	MG_KG		1.17	5.8	3	0.67	Y					0.154	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Barium	20.6	MG_KG		36.7	580	22000	1500	Y					0.257	2.06	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Beryllium	0.134	MG_KG	J	0.195	63	230	16	Y					0.0515	0.257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Cadmium	0.0905	MG_KG	J	0.2	3	98	7	Y					0.0515	0.257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Calcium	213	MG_KG	J	8470				Y					51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Chromium	3.65	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.103	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Cobalt	0.392	MG_KG	J	0.414	0.9	35	2.3	Y					0.257	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Copper	6.61	MG_KG		17.1	700	4700	310	Y					0.206	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Iron	2530	MG_KG		7210	150	82000	5500	Y					1.54	5.15	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Lead	13.2	MG_KG	J	27.5	270	800	400	Y					0.0772	0.154	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Magnesium	145	MG_KG	J	904				Y					51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Manganese	22.9	MG_KG		37	65	2600	180	Y					0.154	0.772	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Mercury	0.0201	MG_KG	J	0.161	1	35	2.3	Y					0.00984	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Nickel	1.54	MG_KG		3.11	130	2200	150	Y					0.154	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Perchlorate	101	UG_KG				82000	5500	Y					3.03	25.2	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	PETN	435	UG_KG	U			160000	12000						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Potassium	138	MG_KG	J	359				Y					51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Selenium	0.206	MG_KG	J	1.59	1.5	580	39	Y					0.154	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Silver	0.103	MG_KG	U	0.354	3.4	580	39						0.103	0.515	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Sodium	154	MG_KG	U	250									51.5	257	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Tetryl	174	UG_KG	U			160000	12000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Thallium	0.412	MG_KG	U		0.28	1.2	0.078						0.412	0.412	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Vanadium	6.25	MG_KG		17.6	6	580	39	Y					0.257	0.644	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS152-IC-11B	N	Zinc	19.7	MG_KG	J	28.6	1200	35000	2300	Y					0.257	1.03	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Aluminum	5760	MG_KG		12800		100000	7700	Y					2.55	10.2	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Antimony	0.408	MG_KG	UJ	1.87	0.9	47	3.1						0.255	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Arsenic	1.1	MG_KG		1.17	5.8	3	0.67	Y					0.153	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Barium	18.7	MG_KG		36.7	580	22000	1500	Y					0.255	2.04	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Beryllium	0.146	MG_KG	J	0.195	63	230	16	Y					0.051	0.255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Cadmium	0.0796	MG_KG	J	0.2	3	98	7	Y					0.051	0.255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Calcium	185	MG_KG	J	8470				Y					51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Chromium	4.32	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.102	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Cobalt	0.431	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.255	0.638	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Copper	17.6	MG_KG		17.1	700	4700	310	Y	Y				0.204	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Iron	3160	MG_KG		7210	150	82000	5500	Y					1.53	5.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Lead	12.3	MG_KG	J	27.5	270	800	400	Y					0.0766	0.153	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Magnesium	165	MG_KG	J	904				Y					51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Manganese	10.5	MG_KG		37	65	2600	180	Y					0.153	0.766	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Mercury	0.0173	MG_KG	J	0.161	1	35	2.3	Y					0.0141	0.0357	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Nickel	1.74	MG_KG		3.11	130	2200	150	Y					0.153	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Perchlorate	65	UG_KG				82000	5500	Y					0.606	5.05	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Potassium	165	MG_KG	J	359				Y					51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Selenium	0.255	MG_KG	U	1.59	1.5	580	39						0.153	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Silver	0.102	MG_KG	U	0.354	3.4	580	39						0.102	0.51	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Sodium	153	MG_KG	U	250									51	255	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Thallium	0.51	MG_KG	U		0.28	1.2	0.078						0.51	0.817	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Vanadium	7.04	MG_KG		17.6	6	580	39	Y					0.255	0.638	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS153-OC-11B	N	Zinc	23.5	MG_KG	J	28.6	1200	35000	2300	Y					0.255	1.02	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	2-Nitrotoluene	145	UG_KG	J			15000	3200	Y					80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Aluminum	5370	MG_KG		12800		100000	7700	Y					2.53	10.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Antimony	0.404	MG_KG	UJ	1.87	0.9	47	3.1						0.253	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Arsenic	1.07	MG_KG		1.17	5.8	3	0.67	Y					0.152	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Barium	22.8	MG_KG		36.7	580	22000	1500	Y					0.253	2.02	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Beryllium	0.149	MG_KG	J	0.195	63	230	16	Y					0.0505	0.253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Cadmium	0.0722	MG_KG	J	0.2	3	98	7	Y					0.0505	0.253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Calcium	304	MG_KG		8470				Y					50.5	253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Chromium	3.94	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.101	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Cobalt	0.42	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.253	0.632	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Copper	9.52	MG_KG		17.1	700	4700	310	Y					0.202	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	HMX	160	UG_KG	U			5700000	380000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Iron	2930	MG_KG		7210	150	82000	5500	Y					1.52	5.05	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Lead	13.9	MG_KG	J	27.5	270	800	400	Y					0.0758	0.152	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Magnesium	167	MG_KG	J	904				Y					50.5	253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Manganese	19.9	MG_KG		37	65	2600	180	Y					0.152	0.758	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Mercury	0.0193	MG_KG	J	0.161	1	35	2.3	Y					0.0104	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Nickel	1.64	MG_KG		3.11	130	2200	150	Y					0.152	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Perchlorate	61.5	UG_KG				82000	5500	Y					0.606	5.05	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	PETN	400	UG_KG	U			160000	12000						200	800	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Potassium	166	MG_KG	J	359				Y					50.5	253	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	RDX	160	UG_KG	U			28000	6000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Selenium	0.253	MG_KG	U	1.59	1.5	580	39						0.152	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Silver	0.101	MG_KG	U	0.354	3.4	580	39						0.101	0.505	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Sodium	152	MG_KG	U	250									50.5	253	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Tetryl	160	UG_KG	U			160000	12000						80	320	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Thallium	0.505	MG_KG	U		0.28	1.2	0.078						0.505	0.809	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Vanadium	6.79	MG_KG		17.6	6	580	39	Y					0.253	0.632	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS154-IC-11B	N	Zinc	28.9	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.253	1.01	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Aluminum	4630	MG_KG		12800		100000	7700	Y					2.72	10.9	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Antimony	0.436	MG_KG	UJ	1.87	0.9	47	3.1						0.272	0.545	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Arsenic	1.13	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.545	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Barium	23	MG_KG		36.7	580	22000	1500	Y					0.272	2.18	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Beryllium	0.129	MG_KG	J	0.195	63	230	16	Y					0.0545	0.272	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Cadmium	0.868	MG_KG		0.2	3	98	7	Y	Y				0.0545	0.272	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Calcium	727	MG_KG		8470				Y					54.5	272	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Chromium	4.35	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.109	0.545	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Cobalt	0.361	MG_KG	J	0.414	0.9	35	2.3	Y					0.272	0.681	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Copper	11.8	MG_KG		17.1	700	4700	310	Y					0.218	0.545	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	HMX	174	UG_KG	U			5700000	380000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Iron	3000	MG_KG		7210	150	82000	5500	Y					1.63	5.45	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Lead	16.5	MG_KG	J	27.5	270	800	400	Y					0.0817	0.163	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Magnesium	172	MG_KG	J	904				Y					54.5	272	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Manganese	53.2	MG_KG		37	65	2600	180	Y	Y				0.163	0.817	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Mercury	0.0337	MG_KG	J	0.161	1	35	2.3	Y					0.0152	0.0385	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Nickel	1.83	MG_KG		3.11	130	2200	150	Y					0.163	0.545	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Nitroglycerin	435	UG_KG	U			8200	620						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Perchlorate	99.5	UG_KG				82000	5500	Y					1.31	10.9	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	PETN	435	UG_KG	U			160000	12000						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Potassium	175	MG_KG	J	359				Y					54.5	272	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	RDX	174	UG_KG	U			28000	6000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Selenium	0.22	MG_KG	J	1.59	1.5	580	39	Y					0.163	0.545	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.0545	0.545	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Sodium	163	MG_KG	U	250									54.5	272	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Tetryl	174	UG_KG	U			160000	12000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Thallium	0.327	MG_KG	U		0.28	1.2	0.078						0.327	0.436	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Vanadium	6.49	MG_KG		17.6	6	580	39	Y					0.272	0.681	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155D-OC-11B	FD	Zinc	61.5	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.272	1.09	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Aluminum	4700	MG_KG		12800		100000	7700	Y					2.78	11.1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Antimony	0.445	MG_KG	UJ	1.87	0.9	47	3.1						0.278	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Barium	24	MG_KG		36.7	580	22000	1500	Y					0.278	2.23	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Beryllium	0.131	MG_KG	J	0.195	63	230	16	Y					0.0556	0.278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Cadmium	0.651	MG_KG		0.2	3	98	7	Y	Y				0.0556	0.278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Calcium	675	MG_KG		8470				Y					55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Chromium	3.73	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.111	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Cobalt	0.328	MG_KG	J	0.414	0.9	35	2.3	Y					0.278	0.696	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Copper	10.1	MG_KG		17.1	700	4700	310	Y					0.223	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Iron	2560	MG_KG		7210	150	82000	5500	Y					1.67	5.56	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Lead	15.5	MG_KG	J	27.5	270	800	400	Y					0.0835	0.167	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Magnesium	170	MG_KG	J	904				Y					55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Manganese	45.6	MG_KG		37	65	2600	180	Y	Y				0.167	0.835	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Mercury	0.0294	MG_KG	J	0.161	1	35	2.3	Y					0.0149	0.0378	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Nickel	1.51	MG_KG		3.11	130	2200	150	Y					0.167	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Perchlorate	64	UG_KG				82000	5500	Y					0.664	5.54	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Potassium	167	MG_KG	J	359				Y					55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Selenium	0.251	MG_KG	J	1.59	1.5	580	39	Y					0.167	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0556	0.556	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Sodium	167	MG_KG	U	250									55.6	278	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Thallium	0.334	MG_KG	U		0.28	1.2	0.078						0.334	0.445	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Vanadium	6.49	MG_KG		17.6	6	580	39	Y					0.278	0.696	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS155-OC-11B	N	Zinc	47.2	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.278	1.11	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	05/27/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Aluminum	4250	MG_KG		12800		100000	7700	Y					2.59	10.4	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Antimony	0.415	MG_KG	UJ	1.87	0.9	47	3.1						0.259	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.156	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Barium	19.2	MG_KG		36.7	580	22000	1500	Y					0.259	2.08	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Beryllium	0.113	MG_KG	J	0.195	63	230	16	Y					0.0519	0.259	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Cadmium	0.24	MG_KG	J	0.2	3	98	7	Y	Y				0.0519	0.259	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Calcium	295	MG_KG		8470				Y					51.9	259	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Chromium	3.89	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.104	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Cobalt	0.331	MG_KG	J	0.414	0.9	35	2.3	Y					0.259	0.649	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Copper	10.1	MG_KG		17.1	700	4700	310	Y					0.208	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Iron	3720	MG_KG		7210	150	82000	5500	Y					1.56	5.19	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Lead	17.3	MG_KG	J	27.5	270	800	400	Y					0.0778	0.156	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Magnesium	135	MG_KG	J	904				Y					51.9	259	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Manganese	40.6	MG_KG		37	65	2600	180	Y	Y				0.156	0.778	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Mercury	0.0294	MG_KG	J	0.161	1	35	2.3	Y					0.0142	0.036	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Nickel	1.63	MG_KG		3.11	130	2200	150	Y					0.156	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Perchlorate	65.6	UG_KG				82000	5500	Y					1.22	10.2	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	PETN	476	UG_KG	U			160000	12000						238	952	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Potassium	168	MG_KG	J	359				Y					51.9	259	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	RDX	190	UG_KG	U			28000	6000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Selenium	0.259	MG_KG	U	1.59	1.5	580	39						0.156	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Silver	0.104	MG_KG	U	0.354	3.4	580	39						0.0519	0.519	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Sodium	156	MG_KG	U	250									51.9	259	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Thallium	0.311	MG_KG	U		0.28	1.2	0.078						0.311	0.415	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Vanadium	6.16	MG_KG		17.6	6	580	39	Y					0.259	0.649	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS156-IC-11B	N	Zinc	28	MG_KG	J	28.6	1200	35000	2300	Y					0.259	1.04	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Aluminum	4000	MG_KG		12800		100000	7700	Y					2.51	10	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Antimony	0.401	MG_KG	UJ	1.87	0.9	47	3.1						0.251	0.501	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Arsenic	1.13	MG_KG		1.17	5.8	3	0.67	Y					0.15	0.501	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Barium	16.3	MG_KG		36.7	580	22000	1500	Y					0.251	2	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Beryllium	0.15	MG_KG	J	0.195	63	230	16	Y					0.0501	0.251	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Cadmium	0.0927	MG_KG	J	0.2	3	98	7	Y					0.0501	0.251	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Calcium	4390	MG_KG		8470				Y					50.1	251	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Chromium	3.68	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.1	0.501	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Cobalt	0.407	MG_KG	J	0.414	0.9	35	2.3	Y					0.251	0.626	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Copper	6.72	MG_KG		17.1	700	4700	310	Y					0.2	0.501	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Iron	2250	MG_KG		7210	150	82000	5500	Y					1.5	5.01	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Lead	12.1	MG_KG	J	27.5	270	800	400	Y					0.0752	0.15	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Magnesium	190	MG_KG	J	904				Y					50.1	251	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Manganese	33.1	MG_KG		37	65	2600	180	Y					0.15	0.752	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Mercury	0.0165	MG_KG	J	0.161	1	35	2.3	Y					0.0131	0.0332	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Nickel	1.66	MG_KG		3.11	130	2200	150	Y					0.15	0.501	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Perchlorate	78.4	UG_KG				82000	5500	Y					1.21	10.1	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	PETN	455	UG_KG	U			160000	12000						227	909	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Potassium	148	MG_KG	J	359				Y					50.1	251	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	RDX	182	UG_KG	U			28000	6000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Selenium	0.16	MG_KG	J	1.59	1.5	580	39	Y					0.15	0.501	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Silver	0.1	MG_KG	U	0.354	3.4	580	39						0.0501	0.501	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Sodium	150	MG_KG	U	250									50.1	251	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Thallium	0.401	MG_KG	U		0.28	1.2	0.078						0.401	0.401	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Vanadium	5.46	MG_KG		17.6	6	580	39	Y					0.251	0.626	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS157-OC-11B	N	Zinc	22.9	MG_KG	J	28.6	1200	35000	2300	Y					0.251	1	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Aluminum	3770	MG_KG		12800		100000	7700	Y					2.43	9.73	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Antimony	0.389	MG_KG	UJ	1.87	0.9	47	3.1						0.243	0.487	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Arsenic	1.05	MG_KG		1.17	5.8	3	0.67	Y					0.146	0.487	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Barium	15.2	MG_KG		36.7	580	22000	1500	Y					0.243	1.95	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Beryllium	0.136	MG_KG	J	0.195	63	230	16	Y					0.0487	0.243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Cadmium	0.131	MG_KG	J	0.2	3	98	7	Y					0.0487	0.243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Calcium	19100	MG_KG		8470				Y	Y				48.7	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Chromium	4	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.0973	0.487	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Cobalt	0.336	MG_KG	J	0.414	0.9	35	2.3	Y					0.243	0.608	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Copper	7.76	MG_KG		17.1	700	4700	310	Y					0.195	0.487	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	HMX	174	UG_KG	U			5700000	380000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Iron	2440	MG_KG		7210	150	82000	5500	Y					1.46	4.87	05/27/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Lead	16.2	MG_KG	J	27.5	270	800	400	Y					0.073	0.146	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Magnesium	348	MG_KG	J	904				Y					48.7	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Manganese	32.5	MG_KG		37	65	2600	180	Y					0.146	0.73	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Mercury	0.0157	MG_KG	J	0.161	1	35	2.3	Y					0.0116	0.033	05/27/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Nickel	1.59	MG_KG		3.11	130	2200	150	Y					0.146	0.487	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	05/27/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Perchlorate	68.9	UG_KG				82000	5500	Y					0.604	5.04	05/27/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	PETN	435	UG_KG	U			160000	12000						217	870	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Potassium	134	MG_KG	J	359				Y					48.7	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	RDX	174	UG_KG	U			28000	6000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Selenium	0.155	MG_KG	J	1.59	1.5	580	39	Y					0.146	0.487	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Silver	0.0973	MG_KG	U	0.354	3.4	580	39						0.0973	0.487	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Sodium	146	MG_KG	U	250									48.7	243	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Tetryl	174	UG_KG	U			160000	12000						87	348	05/27/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Thallium	0.292	MG_KG	U		0.28	1.2	0.078						0.292	0.389	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Vanadium	5.78	MG_KG		17.6	6	580	39	Y					0.243	0.608	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS158-IC-11B	N	Zinc	18.5	MG_KG	J	28.6	1200	35000	2300	Y					0.243	0.973	05/27/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Aluminum	4990	MG_KG		12800		100000	7700	Y					2.74	11	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Antimony	0.439	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.548	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Arsenic	0.968	MG_KG		1.17	5.8	3	0.67	Y					0.164	0.548	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Barium	25.8	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Beryllium	0.241	MG_KG	J	0.195	63	230	16	Y	Y				0.0548	0.274	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0548	0.274	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Calcium	860	MG_KG		8470				Y					54.8	274	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Chromium	4.13	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.548	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Cobalt	0.334	MG_KG	J	0.414	0.9	35	2.3	Y					0.274	0.685	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Copper	7.36	MG_KG		17.1	700	4700	310	Y					0.219	0.548	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Iron	2700	MG_KG		7210	150	82000	5500	Y					1.64	5.48	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Lead	6.78	MG_KG		27.5	270	800	400	Y					0.0822	0.164	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Magnesium	193	MG_KG	J	904				Y					54.8	274	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Manganese	46.2	MG_KG		37	65	2600	180	Y	Y				0.164	0.822	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Mercury	0.0124	MG_KG	J	0.161	1	35	2.3	Y					0.0105	0.033	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Nickel	2.26	MG_KG		3.11	130	2200	150	Y					0.164	0.548	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Nitroglycerin	1340	UG_KG				8200	620	Y				Y	217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Perchlorate	2.15	UG_KG	U			82000	5500						0.645	5.37	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Potassium	121	MG_KG	J	359				Y					54.8	274	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Selenium	0.274	MG_KG	U	1.59	1.5	580	39						0.164	0.548	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.0548	0.548	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Sodium	87.8	MG_KG	J	250				Y					54.8	274	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Thallium	0.219	MG_KG	U		0.28	1.2	0.078						0.164	0.439	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Vanadium	5.33	MG_KG		17.6	6	580	39	Y					0.274	0.685	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS159-OC-11C	N	Zinc	41.5	MG_KG		28.6	1200	35000	2300	Y	Y				0.274	1.1	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Aluminum	5570	MG_KG		12800		100000	7700	Y					2.71	10.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Antimony	0.433	MG_KG	UJ	1.87	0.9	47	3.1						0.271	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Arsenic	0.967	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Barium	28.5	MG_KG		36.7	580	22000	1500	Y					0.271	2.17	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Beryllium	0.267	MG_KG	J	0.195	63	230	16	Y	Y				0.0542	0.271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Cadmium	0.0783	MG_KG	J	0.2	3	98	7	Y					0.0542	0.271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Calcium	1590	MG_KG		8470				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Chromium	4.14	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Cobalt	0.333	MG_KG	J	0.414	0.9	35	2.3	Y					0.271	0.677	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Copper	8.41	MG_KG		17.1	700	4700	310	Y					0.217	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Iron	2900	MG_KG		7210	150	82000	5500	Y					1.63	5.42	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Lead	6.72	MG_KG		27.5	270	800	400	Y					0.0813	0.163	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Magnesium	216	MG_KG	J	904				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Manganese	54.9	MG_KG		37	65	2600	180	Y	Y				0.163	0.813	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Mercury	0.0344	MG_KG	U	0.161	1	35	2.3						0.0136	0.0344	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Nickel	2.31	MG_KG		3.11	130	2200	150	Y					0.163	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Nitroglycerin	1050	UG_KG				8200	620	Y				Y	238	952	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Perchlorate	2.16	UG_KG	U			82000	5500						0.647	5.39	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	PETN	476	UG_KG	U			160000	12000						238	952	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Potassium	125	MG_KG	J	359				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	RDX	190	UG_KG	U			28000	6000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Selenium	0.271	MG_KG	U	1.59	1.5	580	39						0.163	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.0542	0.542	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Sodium	78.7	MG_KG	J	250				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Thallium	0.217	MG_KG	U		0.28	1.2	0.078						0.163	0.433	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Vanadium	5.56	MG_KG		17.6	6	580	39	Y					0.271	0.677	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS160-IC-11C	N	Zinc	59.4	MG_KG		28.6	1200	35000	2300	Y	Y				0.271	1.08	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Aluminum	5600	MG_KG		12800		100000	7700	Y					2.71	10.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Antimony	0.434	MG_KG	UJ	1.87	0.9	47	3.1						0.271	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Arsenic	1.01	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Barium	25.5	MG_KG		36.7	580	22000	1500	Y					0.271	2.17	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Beryllium	0.258	MG_KG	J	0.195	63	230	16	Y	Y				0.0542	0.271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Cadmium	0.0834	MG_KG	J	0.2	3	98	7	Y					0.0542	0.271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Calcium	563	MG_KG		8470				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Chromium	4.13	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Cobalt	0.313	MG_KG	J	0.414	0.9	35	2.3	Y					0.271	0.678	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Copper	9.23	MG_KG		17.1	700	4700	310	Y					0.217	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Iron	2900	MG_KG		7210	150	82000	5500	Y					1.63	5.42	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Lead	6.86	MG_KG		27.5	270	800	400	Y					0.0814	0.163	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Magnesium	206	MG_KG	J	904				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Manganese	46.5	MG_KG		37	65	2600	180	Y	Y				0.163	0.814	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Mercury	0.0154	MG_KG	J	0.161	1	35	2.3	Y					0.0148	0.0376	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Nickel	2.28	MG_KG		3.11	130	2200	150	Y					0.163	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Nitroglycerin	565	UG_KG	J			8200	620	Y					192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Perchlorate	2.13	UG_KG	U			82000	5500						0.638	5.32	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Potassium	126	MG_KG	J	359				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	RDX	154	UG_KG	U			28000	6000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Selenium	0.271	MG_KG	U	1.59	1.5	580	39						0.163	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.0542	0.542	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Sodium	68	MG_KG	J	250				Y					54.2	271	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Thallium	0.217	MG_KG	U		0.28	1.2	0.078						0.163	0.434	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Vanadium	5.66	MG_KG		17.6	6	580	39	Y					0.271	0.678	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS161-OC-11C	N	Zinc	50.2	MG_KG		28.6	1200	35000	2300	Y	Y				0.271	1.08	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	1,3-Dinitrobenzene	87.6	UG_KG	J			8200	620	Y					69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Aluminum	5470	MG_KG		12800		100000	7700	Y					2.64	10.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Antimony	0.422	MG_KG	UJ	1.87	0.9	47	3.1						0.264	0.528	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Arsenic	0.925	MG_KG		1.17	5.8	3	0.67	Y					0.158	0.528	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Barium	23.5	MG_KG		36.7	580	22000	1500	Y					0.264	2.11	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Beryllium	0.262	MG_KG	J	0.195	63	230	16	Y	Y				0.0528	0.264	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Cadmium	0.106	MG_KG	U	0.2	3	98	7						0.0528	0.264	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Calcium	403	MG_KG		8470				Y					52.8	264	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Chromium	3.75	MG_KG		17.4	3.8	6.3	0.3	Y					0.106	0.528	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Cobalt	0.295	MG_KG	J	0.414	0.9	35	2.3	Y					0.264	0.66	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Copper	8.1	MG_KG		17.1	700	4700	310	Y					0.211	0.528	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	HMX	138	UG_KG	U			5700000	380000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Iron	2510	MG_KG		7210	150	82000	5500	Y					1.58	5.28	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Lead	5.74	MG_KG		27.5	270	800	400	Y					0.0792	0.158	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Magnesium	195	MG_KG	J	904				Y					52.8	264	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Manganese	37.1	MG_KG		37	65	2600	180	Y	Y				0.158	0.792	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Mercury	0.0121	MG_KG	J	0.161	1	35	2.3	Y					0.012	0.033	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Nickel	2.05	MG_KG		3.11	130	2200	150	Y					0.158	0.528	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Nitroglycerin	1770	UG_KG				8200	620	Y				Y	172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Perchlorate	2.15	UG_KG	U			82000	5500						0.646	5.38	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	PETN	345	UG_KG	U			160000	12000						172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Potassium	109	MG_KG	J	359				Y					52.8	264	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	RDX	138	UG_KG	U			28000	6000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Selenium	0.264	MG_KG	U	1.59	1.5	580	39						0.158	0.528	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Silver	0.106	MG_KG	U	0.354	3.4	580	39						0.0528	0.528	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Sodium	158	MG_KG	U	250									52.8	264	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Tetryl	138	UG_KG	U			160000	12000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Thallium	0.211	MG_KG	U		0.28	1.2	0.078						0.211	0.422	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Vanadium	5.01	MG_KG		17.6	6	580	39	Y					0.264	0.66	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS162-IC-11C	N	Zinc	38.4	MG_KG		28.6	1200	35000	2300	Y	Y				0.264	1.06	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Aluminum	5520	MG_KG		12800		100000	7700	Y					2.61	10.5	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Antimony	0.418	MG_KG	UJ	1.87	0.9	47	3.1						0.261	0.523	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Arsenic	0.989	MG_KG		1.17	5.8	3	0.67	Y					0.157	0.523	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Barium	29.9	MG_KG		36.7	580	22000	1500	Y					0.261	2.09	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Beryllium	0.274	MG_KG		0.195	63	230	16	Y	Y				0.0523	0.261	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Cadmium	0.105	MG_KG	U	0.2	3	98	7						0.0523	0.261	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Calcium	832	MG_KG		8470				Y					52.3	261	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Chromium	4.37	MG_KG		17.4	3.8	6.3	0.3	Y					0.105	0.523	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Cobalt	0.34	MG_KG	J	0.414	0.9	35	2.3	Y					0.261	0.654	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Copper	10.7	MG_KG		17.1	700	4700	310	Y					0.209	0.523	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Iron	2860	MG_KG		7210	150	82000	5500	Y					1.57	5.23	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Lead	6.85	MG_KG		27.5	270	800	400	Y					0.0784	0.157	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Magnesium	203	MG_KG	J	904				Y					52.3	261	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Manganese	59.6	MG_KG		37	65	2600	180	Y	Y				0.157	0.784	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Mercury	0.0158	MG_KG	J	0.161	1	35	2.3	Y					0.0138	0.0349	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Nickel	2.59	MG_KG		3.11	130	2200	150	Y					0.157	0.523	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Nitroglycerin	2220	UG_KG				8200	620	Y				Y	185	741	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Perchlorate	2.19	UG_KG	U			82000	5500						0.656	5.47	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	PETN	370	UG_KG	U			160000	12000						185	741	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Potassium	122	MG_KG	J	359				Y					52.3	261	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	RDX	148	UG_KG	U			28000	6000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Selenium	0.261	MG_KG	U	1.59	1.5	580	39						0.157	0.523	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Silver	0.105	MG_KG	U	0.354	3.4	580	39						0.0523	0.523	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Sodium	157	MG_KG	U	250									52.3	261	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Thallium	0.209	MG_KG	U		0.28	1.2	0.078						0.209	0.418	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Vanadium	5.59	MG_KG		17.6	6	580	39	Y					0.261	0.654	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS163-OC-11C	N	Zinc	72.8	MG_KG		28.6	1200	35000	2300	Y	Y				0.261	1.05	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	1,3-Dinitrobenzene	110	UG_KG	J			8200	620	Y					100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Aluminum	5760	MG_KG		12800		100000	7700	Y					2.72	10.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Antimony	0.435	MG_KG	UJ	1.87	0.9	47	3.1						0.272	0.543	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Arsenic	1.01	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.543	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Barium	26.1	MG_KG		36.7	580	22000	1500	Y					0.272	2.17	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Beryllium	0.279	MG_KG		0.195	63	230	16	Y	Y				0.0543	0.272	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0543	0.272	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Calcium	603	MG_KG		8470				Y					54.3	272	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Chromium	4.2	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.543	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Cobalt	0.311	MG_KG	J	0.414	0.9	35	2.3	Y					0.272	0.679	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Copper	9.64	MG_KG		17.1	700	4700	310	Y					0.217	0.543	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	HMX	200	UG_KG	U			5700000	380000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Iron	2850	MG_KG		7210	150	82000	5500	Y					1.63	5.43	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Lead	6.63	MG_KG		27.5	270	800	400	Y					0.0815	0.163	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Magnesium	215	MG_KG	J	904				Y					54.3	272	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Manganese	49	MG_KG		37	65	2600	180	Y	Y				0.163	0.815	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Mercury	0.0166	MG_KG	J	0.161	1	35	2.3	Y					0.0131	0.0333	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Nickel	2.26	MG_KG		3.11	130	2200	150	Y					0.163	0.543	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Nitroglycerin	1480	UG_KG				8200	620	Y				Y	250	1000	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Perchlorate	2.15	UG_KG	U			82000	5500						0.645	5.38	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	PETN	500	UG_KG	U			160000	12000						250	1000	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Potassium	121	MG_KG	J	359				Y					54.3	272	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	RDX	200	UG_KG	U			28000	6000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Selenium	0.272	MG_KG	U	1.59	1.5	580	39						0.163	0.543	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.0543	0.543	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Sodium	163	MG_KG	U	250									54.3	272	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Tetryl	200	UG_KG	U			160000	12000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Thallium	0.217	MG_KG	U		0.28	1.2	0.078						0.217	0.435	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Vanadium	5.62	MG_KG		17.6	6	580	39	Y					0.272	0.679	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164D-IC-11C	FD	Zinc	51.7	MG_KG		28.6	1200	35000	2300	Y	Y				0.272	1.09	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	1,3-Dinitrobenzene	147	UG_KG	J			8200	620	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Aluminum	5660	MG_KG		12800		100000	7700	Y					2.69	10.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Antimony	0.43	MG_KG	UJ	1.87	0.9	47	3.1						0.269	0.538	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Arsenic	0.927	MG_KG		1.17	5.8	3	0.67	Y					0.161	0.538	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Barium	24.9	MG_KG		36.7	580	22000	1500	Y					0.269	2.15	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Beryllium	0.279	MG_KG		0.195	63	230	16	Y	Y				0.0538	0.269	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Cadmium	0.108	MG_KG	U	0.2	3	98	7						0.0538	0.269	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Calcium	387	MG_KG		8470				Y					53.8	269	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Chromium	4.09	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.538	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Cobalt	0.307	MG_KG	J	0.414	0.9	35	2.3	Y					0.269	0.672	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Copper	6.86	MG_KG		17.1	700	4700	310	Y					0.215	0.538	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Iron	2570	MG_KG		7210	150	82000	5500	Y					1.61	5.38	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Lead	5.88	MG_KG		27.5	270	800	400	Y					0.0806	0.161	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Magnesium	205	MG_KG	J	904				Y					53.8	269	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Manganese	37.8	MG_KG		37	65	2600	180	Y	Y				0.161	0.806	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Mercury	0.0334	MG_KG	U	0.161	1	35	2.3						0.0132	0.0334	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Nickel	2.12	MG_KG		3.11	130	2200	150	Y					0.161	0.538	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Nitroglycerin	848	UG_KG	J			8200	620	Y				Y	217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Perchlorate	2.16	UG_KG	U			82000	5500						0.648	5.4	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Potassium	114	MG_KG	J	359				Y					53.8	269	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Selenium	0.269	MG_KG	U	1.59	1.5	580	39						0.161	0.538	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.0538	0.538	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Sodium	161	MG_KG	U	250									53.8	269	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Thallium	0.215	MG_KG	U		0.28	1.2	0.078						0.215	0.43	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Vanadium	5.42	MG_KG		17.6	6	580	39	Y					0.269	0.672	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS164-IC-11C	N	Zinc	39.4	MG_KG		28.6	1200	35000	2300	Y	Y				0.269	1.08	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Aluminum	6380	MG_KG		12800		100000	7700	Y					2.73	10.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Antimony	0.437	MG_KG	UJ	1.87	0.9	47	3.1						0.273	0.547	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Arsenic	1.55	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.547	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Barium	22.9	MG_KG		36.7	580	22000	1500	Y					0.273	2.19	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Beryllium	0.24	MG_KG	J	0.195	63	230	16	Y	Y				0.0547	0.273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0547	0.273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Calcium	279	MG_KG		8470				Y					54.7	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Chromium	4.95	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.547	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Cobalt	0.622	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.273	0.683	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Copper	6.08	MG_KG		17.1	700	4700	310	Y					0.219	0.547	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Iron	4270	MG_KG		7210	150	82000	5500	Y					1.64	5.47	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Lead	11.6	MG_KG		27.5	270	800	400	Y					0.082	0.164	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Magnesium	265	MG_KG	J	904				Y					54.7	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Manganese	66.6	MG_KG		37	65	2600	180	Y	Y	Y			0.164	0.82	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Mercury	0.0188	MG_KG	J	0.161	1	35	2.3	Y					0.0134	0.0341	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Nickel	2.41	MG_KG		3.11	130	2200	150	Y					0.164	0.547	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Perchlorate	2.27	UG_KG	U			82000	5500						0.682	5.68	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Potassium	183	MG_KG	J	359				Y					54.7	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	RDX	182	UG_KG	U			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Selenium	0.273	MG_KG	U	1.59	1.5	580	39						0.164	0.547	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.0547	0.547	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Sodium	164	MG_KG	U	250									54.7	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Tetryl	153	UG_KG	J			160000	12000	Y					90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Thallium	0.273	MG_KG	U		0.28	1.2	0.078						0.273	0.437	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Vanadium	7.81	MG_KG		17.6	6	580	39	Y					0.273	0.683	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS165-OC-11C	N	Zinc	13.9	MG_KG		28.6	1200	35000	2300	Y					0.273	1.09	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	1,3-Dinitrobenzene	101	UG_KG	J			8200	620	Y					76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	2-Nitrotoluene	710	UG_KG				15000	3200	Y					76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Aluminum	5900	MG_KG		12800		100000	7700	Y					2.97	11.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Antimony	0.475	MG_KG	UJ	1.87	0.9	47	3.1						0.297	0.594	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Arsenic	1.54	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.178	0.594	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Barium	20.2	MG_KG		36.7	580	22000	1500	Y					0.297	2.37	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Beryllium	0.222	MG_KG	J	0.195	63	230	16	Y	Y				0.0594	0.297	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Cadmium	0.0915	MG_KG	J	0.2	3	98	7	Y					0.0594	0.297	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Calcium	216	MG_KG	J	8470				Y					59.4	297	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Chromium	4.41	MG_KG		17.4	3.8	6.3	0.3	Y					0.119	0.594	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Cobalt	0.481	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.297	0.742	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Copper	12.2	MG_KG		17.1	700	4700	310	Y					0.237	0.594	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Iron	3610	MG_KG		7210	150	82000	5500	Y					1.78	5.94	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Lead	11.7	MG_KG		27.5	270	800	400	Y					0.0891	0.178	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Magnesium	229	MG_KG	J	904				Y					59.4	297	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Manganese	30.4	MG_KG		37	65	2600	180	Y					0.178	0.891	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Mercury	0.0156	MG_KG	J	0.161	1	35	2.3	Y					0.0113	0.033	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Nickel	1.96	MG_KG		3.11	130	2200	150	Y					0.178	0.594	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Perchlorate	2.33	UG_KG	U			82000	5500						0.698	5.82	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Potassium	171	MG_KG	J	359				Y					59.4	297	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	RDX	154	UG_KG	U			28000	6000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Selenium	0.297	MG_KG	U	1.59	1.5	580	39						0.178	0.594	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Silver	0.119	MG_KG	U	0.354	3.4	580	39						0.119	0.594	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Sodium	178	MG_KG	U	250									59.4	297	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Thallium	0.297	MG_KG	U		0.28	1.2	0.078						0.297	0.475	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Vanadium	6.87	MG_KG		17.6	6	580	39	Y					0.297	0.742	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS166-IC-11C	N	Zinc	12.1	MG_KG		28.6	1200	35000	2300	Y					0.297	1.19	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	2-Nitrotoluene	2090	UG_KG				15000	3200	Y					90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Aluminum	6260	MG_KG		12800		100000	7700	Y					2.73	10.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Antimony	0.436	MG_KG	UJ	1.87	0.9	47	3.1						0.273	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Arsenic	1.6	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Barium	20.9	MG_KG		36.7	580	22000	1500	Y					0.273	2.18	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Beryllium	0.232	MG_KG	J	0.195	63	230	16	Y	Y				0.0545	0.273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Cadmium	0.0553	MG_KG	J	0.2	3	98	7	Y					0.0545	0.273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Calcium	235	MG_KG	J	8470				Y					54.5	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Chromium	4.85	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Cobalt	0.475	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.273	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Copper	6.79	MG_KG		17.1	700	4700	310	Y					0.218	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Iron	3660	MG_KG		7210	150	82000	5500	Y					1.64	5.45	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Lead	12.5	MG_KG		27.5	270	800	400	Y					0.0818	0.164	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Magnesium	254	MG_KG	J	904				Y					54.5	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Manganese	25.8	MG_KG		37	65	2600	180	Y					0.164	0.818	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Mercury	0.0165	MG_KG	J	0.161	1	35	2.3	Y					0.0131	0.0332	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Nickel	2.13	MG_KG		3.11	130	2200	150	Y					0.164	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.684	5.7	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Potassium	195	MG_KG	J	359				Y					54.5	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	RDX	182	UG_KG	U			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Selenium	0.273	MG_KG	U	1.59	1.5	580	39						0.164	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.0545	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Sodium	164	MG_KG	U	250									54.5	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Thallium	0.273	MG_KG	U		0.28	1.2	0.078						0.273	0.436	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Vanadium	7.48	MG_KG		17.6	6	580	39	Y					0.273	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS167-OC-11C	N	Zinc	10.4	MG_KG		28.6	1200	35000	2300	Y					0.273	1.09	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Aluminum	6190	MG_KG		12800		100000	7700	Y					2.91	11.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Antimony	0.466	MG_KG	UJ	1.87	0.9	47	3.1						0.291	0.582	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Arsenic	1.57	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.175	0.582	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Barium	23.2	MG_KG		36.7	580	22000	1500	Y					0.291	2.33	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Beryllium	0.238	MG_KG	J	0.195	63	230	16	Y	Y				0.0582	0.291	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Cadmium	0.095	MG_KG	J	0.2	3	98	7	Y					0.0582	0.291	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Calcium	393	MG_KG		8470				Y					58.2	291	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Chromium	4.78	MG_KG		17.4	3.8	6.3	0.3	Y					0.116	0.582	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Cobalt	0.53	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.291	0.727	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Copper	8.29	MG_KG		17.1	700	4700	310	Y					0.233	0.582	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Iron	3630	MG_KG		7210	150	82000	5500	Y					1.75	5.82	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Lead	13	MG_KG		27.5	270	800	400	Y					0.0873	0.175	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Magnesium	265	MG_KG	J	904				Y					58.2	291	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Manganese	34.2	MG_KG		37	65	2600	180	Y					0.175	0.873	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Mercury	0.0169	MG_KG	J	0.161	1	35	2.3	Y					0.0135	0.0344	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Nickel	2.17	MG_KG		3.11	130	2200	150	Y					0.175	0.582	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.688	5.73	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Potassium	212	MG_KG	J	359				Y					58.2	291	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	RDX	113	UG_KG	J			28000	6000	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Selenium	0.291	MG_KG	U	1.59	1.5	580	39						0.175	0.582	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.0582	0.582	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Sodium	175	MG_KG	U	250									58.2	291	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Thallium	0.291	MG_KG	U		0.28	1.2	0.078						0.291	0.466	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Vanadium	7.67	MG_KG		17.6	6	580	39	Y					0.291	0.727	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS168-IC-11C	N	Zinc	13.5	MG_KG		28.6	1200	35000	2300	Y					0.291	1.16	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	2-Nitrotoluene	168	UG_KG	J			15000	3200	Y					69	276	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Aluminum	6300	MG_KG		12800		100000	7700	Y					3.16	12.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Antimony	0.505	MG_KG	UJ	1.87	0.9	47	3.1						0.316	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Arsenic	1.66	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.189	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Barium	21.9	MG_KG		36.7	580	22000	1500	Y					0.316	2.52	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Beryllium	0.243	MG_KG	J	0.195	63	230	16	Y	Y				0.0631	0.316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Cadmium	0.0875	MG_KG	J	0.2	3	98	7	Y					0.0631	0.316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Calcium	281	MG_KG	J	8470				Y					63.1	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Chromium	4.86	MG_KG		17.4	3.8	6.3	0.3	Y					0.126	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Cobalt	0.497	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.316	0.789	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Copper	9.62	MG_KG		17.1	700	4700	310	Y					0.252	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	HMX	138	UG_KG	U			5700000	380000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Iron	3780	MG_KG		7210	150	82000	5500	Y					1.89	6.31	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Lead	13	MG_KG		27.5	270	800	400	Y					0.0947	0.189	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Magnesium	264	MG_KG	J	904				Y					63.1	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Manganese	33.2	MG_KG		37	65	2600	180	Y					0.189	0.947	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Mercury	0.0188	MG_KG	J	0.161	1	35	2.3	Y					0.0169	0.0429	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Nickel	2.12	MG_KG		3.11	130	2200	150	Y					0.189	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Perchlorate	2.51	UG_KG	U			82000	5500						0.754	6.28	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	PETN	345	UG_KG	U			160000	12000						172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Potassium	192	MG_KG	J	359				Y					63.1	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	RDX	138	UG_KG	U			28000	6000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Selenium	0.209	MG_KG	J	1.59	1.5	580	39	Y					0.189	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Silver	0.126	MG_KG	U	0.354	3.4	580	39						0.0631	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Sodium	189	MG_KG	U	250									63.1	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Tetryl	138	UG_KG	U			160000	12000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Thallium	0.379	MG_KG	U		0.28	1.2	0.078						0.379	0.505	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Vanadium	7.72	MG_KG		17.6	6	580	39	Y					0.316	0.789	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS169-OC-11C	N	Zinc	11.6	MG_KG		28.6	1200	35000	2300	Y					0.316	1.26	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	2-Nitrotoluene	4170	UG_KG				15000	3200	Y				Y	90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Aluminum	6520	MG_KG		12800		100000	7700	Y					2.84	11.3	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Antimony	0.454	MG_KG	UJ	1.87	0.9	47	3.1						0.284	0.567	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Arsenic	1.49	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.17	0.567	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Barium	23.6	MG_KG		36.7	580	22000	1500	Y					0.284	2.27	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Beryllium	0.242	MG_KG	J	0.195	63	230	16	Y	Y				0.0567	0.284	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Cadmium	0.092	MG_KG	J	0.2	3	98	7	Y					0.0567	0.284	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Calcium	273	MG_KG	J	8470				Y					56.7	284	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Chromium	4.85	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.567	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Cobalt	0.528	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.284	0.709	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Copper	7.32	MG_KG		17.1	700	4700	310	Y					0.227	0.567	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Iron	4310	MG_KG		7210	150	82000	5500	Y					1.7	5.67	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Lead	13.7	MG_KG		27.5	270	800	400	Y					0.0851	0.17	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Magnesium	262	MG_KG	J	904				Y					56.7	284	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Manganese	36.3	MG_KG		37	65	2600	180	Y					0.17	0.851	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Mercury	0.0171	MG_KG	J	0.161	1	35	2.3	Y					0.0154	0.0391	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Nickel	2.18	MG_KG		3.11	130	2200	150	Y					0.17	0.567	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Perchlorate	2.29	UG_KG	U			82000	5500						0.688	5.73	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Potassium	203	MG_KG	J	359				Y					56.7	284	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	RDX	182	UG_KG	U			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Selenium	0.284	MG_KG	U	1.59	1.5	580	39						0.17	0.567	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.567	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Sodium	170	MG_KG	U	250									56.7	284	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Thallium	0.34	MG_KG	U		0.28	1.2	0.078						0.34	0.454	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Vanadium	7.69	MG_KG		17.6	6	580	39	Y					0.284	0.709	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170D-IC-11C	FD	Zinc	12	MG_KG		28.6	1200	35000	2300	Y					0.284	1.13	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	2-Nitrotoluene	4960	UG_KG				15000	3200	Y				Y	83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Aluminum	6020	MG_KG		12800		100000	7700	Y					2.9	11.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Antimony	0.464	MG_KG	UJ	1.87	0.9	47	3.1						0.29	0.579	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Arsenic	1.47	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.174	0.579	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Barium	20.7	MG_KG		36.7	580	22000	1500	Y					0.29	2.32	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Beryllium	0.231	MG_KG	J	0.195	63	230	16	Y	Y				0.0579	0.29	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Cadmium	0.0657	MG_KG	J	0.2	3	98	7	Y					0.0579	0.29	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Calcium	268	MG_KG	J	8470				Y					57.9	290	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Chromium	4.56	MG_KG		17.4	3.8	6.3	0.3	Y					0.116	0.579	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Cobalt	0.445	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.29	0.724	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Copper	6.53	MG_KG		17.1	700	4700	310	Y					0.232	0.579	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Iron	3510	MG_KG		7210	150	82000	5500	Y					1.74	5.79	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Lead	11.7	MG_KG		27.5	270	800	400	Y					0.0869	0.174	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Magnesium	244	MG_KG	J	904				Y					57.9	290	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Manganese	27.8	MG_KG		37	65	2600	180	Y					0.174	0.869	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Mercury	0.0155	MG_KG	J	0.161	1	35	2.3	Y					0.0154	0.039	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Nickel	2.04	MG_KG		3.11	130	2200	150	Y					0.174	0.579	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.685	5.71	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	PETN	417	UG_KG	U			160000	12000						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Potassium	179	MG_KG	J	359				Y					57.9	290	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	RDX	167	UG_KG	U			28000	6000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Selenium	0.29	MG_KG	U	1.59	1.5	580	39						0.174	0.579	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.0579	0.579	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Sodium	174	MG_KG	U	250									57.9	290	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Thallium	0.348	MG_KG	U		0.28	1.2	0.078						0.348	0.464	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Vanadium	7.17	MG_KG		17.6	6	580	39	Y					0.29	0.724	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS170-IC-11C	N	Zinc	10.2	MG_KG		28.6	1200	35000	2300	Y					0.29	1.16	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	2-Nitrotoluene	2110	UG_KG				15000	3200	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Aluminum	4810	MG_KG		12800		100000	7700	Y					2.92	11.7	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Antimony	0.468	MG_KG	UJ	1.87	0.9	47	3.1						0.292	0.585	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Arsenic	1.29	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.175	0.585	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Barium	16.2	MG_KG		36.7	580	22000	1500	Y					0.292	2.34	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Beryllium	0.196	MG_KG	J	0.195	63	230	16	Y	Y				0.0585	0.292	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0585	0.292	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Calcium	15800	MG_KG		8470				Y	Y				58.5	292	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Chromium	4.39	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.585	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Cobalt	0.446	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.292	0.731	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Copper	1.99	MG_KG		17.1	700	4700	310	Y					0.234	0.585	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Iron	2630	MG_KG		7210	150	82000	5500	Y					1.75	5.85	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Lead	6.49	MG_KG		27.5	270	800	400	Y					0.0877	0.175	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Magnesium	391	MG_KG		904				Y					58.5	292	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Manganese	25.2	MG_KG		37	65	2600	180	Y					0.175	0.877	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Mercury	0.0358	MG_KG	U	0.161	1	35	2.3						0.0141	0.0358	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Nickel	1.9	MG_KG		3.11	130	2200	150	Y					0.175	0.585	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Perchlorate	2.46	UG_KG	U			82000	5500						0.737	6.14	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Potassium	145	MG_KG	J	359				Y					58.5	292	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Selenium	0.292	MG_KG	U	1.59	1.5	580	39						0.175	0.585	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0585	0.585	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Sodium	77.6	MG_KG	J	250				Y					58.5	292	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Thallium	0.292	MG_KG	U		0.28	1.2	0.078						0.292	0.468	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Vanadium	6.43	MG_KG		17.6	6	580	39	Y					0.292	0.731	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS171-OC-11C	N	Zinc	7.5	MG_KG		28.6	1200	35000	2300	Y					0.292	1.17	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Aluminum	4210	MG_KG		12800		100000	7700	Y					2.77	11.1	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Antimony	0.443	MG_KG	UJ	1.87	0.9	47	3.1						0.277	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.166	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Barium	14.5	MG_KG		36.7	580	22000	1500	Y					0.277	2.22	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Beryllium	0.174	MG_KG	J	0.195	63	230	16	Y					0.0554	0.277	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0554	0.277	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Calcium	7790	MG_KG		8470				Y					55.4	277	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Chromium	3.59	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Cobalt	0.415	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.277	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Copper	1.78	MG_KG		17.1	700	4700	310	Y					0.222	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Iron	2270	MG_KG		7210	150	82000	5500	Y					1.66	5.54	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Lead	6.71	MG_KG		27.5	270	800	400	Y					0.0831	0.166	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Magnesium	255	MG_KG	J	904				Y					55.4	277	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Manganese	23.4	MG_KG		37	65	2600	180	Y					0.166	0.831	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Mercury	0.0303	MG_KG	U	0.161	1	35	2.3						0.0119	0.033	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Nickel	1.58	MG_KG		3.11	130	2200	150	Y					0.166	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Perchlorate	0.686	UG_KG	J			82000	5500	Y					0.662	5.51	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	PETN	417	UG_KG	U			160000	12000						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Potassium	121	MG_KG	J	359				Y					55.4	277	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	RDX	167	UG_KG	U			28000	6000						83.3	333	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Selenium	0.277	MG_KG	U	1.59	1.5	580	39						0.166	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.111	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Sodium	166	MG_KG	U	250									55.4	277	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Thallium	0.222	MG_KG	U		0.28	1.2	0.078						0.222	0.443	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Vanadium	5.69	MG_KG		17.6	6	580	39	Y					0.277	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS172-IC-11C	N	Zinc	6.41	MG_KG		28.6	1200	35000	2300	Y					0.277	1.11	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	2-Nitrotoluene	1840	UG_KG				15000	3200	Y					95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Aluminum	4820	MG_KG		12800		100000	7700	Y					2.75	11	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Antimony	0.44	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Arsenic	1.32	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Barium	16.6	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Beryllium	0.202	MG_KG	J	0.195	63	230	16	Y	Y				0.055	0.275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Cadmium	0.0624	MG_KG	J	0.2	3	98	7	Y					0.055	0.275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Calcium	19600	MG_KG		8470				Y	Y				55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Chromium	4.57	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Cobalt	0.474	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.275	0.688	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Copper	2.64	MG_KG		17.1	700	4700	310	Y					0.22	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Iron	2650	MG_KG		7210	150	82000	5500	Y					1.65	5.5	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Lead	7.64	MG_KG		27.5	270	800	400	Y					0.0826	0.165	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Magnesium	439	MG_KG		904				Y					55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Manganese	29.6	MG_KG		37	65	2600	180	Y					0.165	0.826	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Mercury	0.0303	MG_KG	U	0.161	1	35	2.3						0.012	0.033	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Nickel	1.97	MG_KG		3.11	130	2200	150	Y					0.165	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Perchlorate	2.27	UG_KG	U			82000	5500						0.68	5.67	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	PETN	476	UG_KG	U			160000	12000						238	952	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Potassium	152	MG_KG	J	359				Y					55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	RDX	190	UG_KG	U			28000	6000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Sodium	67.4	MG_KG	J	250				Y					55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.22	0.44	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Vanadium	7.31	MG_KG		17.6	6	580	39	Y					0.275	0.688	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS173-OC-11C	N	Zinc	8.47	MG_KG		28.6	1200	35000	2300	Y					0.275	1.1	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	2-Nitrotoluene	1450	UG_KG				15000	3200	Y					76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Aluminum	4940	MG_KG		12800		100000	7700	Y					2.81	11.2	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Antimony	0.449	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.562	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Arsenic	1.13	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.562	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Barium	17.1	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Beryllium	0.195	MG_KG	J	0.195	63	230	16	Y					0.0562	0.281	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0562	0.281	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Calcium	11800	MG_KG		8470				Y	Y				56.2	281	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Chromium	4.22	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.562	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Cobalt	0.475	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.281	0.702	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Copper	1.96	MG_KG		17.1	700	4700	310	Y					0.225	0.562	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Iron	2540	MG_KG		7210	150	82000	5500	Y					1.69	5.62	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Lead	6.79	MG_KG		27.5	270	800	400	Y					0.0843	0.169	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Magnesium	329	MG_KG		904				Y					56.2	281	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Manganese	30.6	MG_KG		37	65	2600	180	Y					0.169	0.843	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Mercury	0.0363	MG_KG	U	0.161	1	35	2.3						0.0143	0.0363	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Nickel	1.8	MG_KG		3.11	130	2200	150	Y					0.169	0.562	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Perchlorate	2.27	UG_KG	J			82000	5500	Y					0.661	5.51	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Potassium	146	MG_KG	J	359				Y					56.2	281	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	RDX	154	UG_KG	U			28000	6000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Selenium	0.281	MG_KG	U	1.59	1.5	580	39						0.169	0.562	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.112	0.562	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Sodium	58.4	MG_KG	J	250				Y					56.2	281	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Thallium	0.281	MG_KG	U		0.28	1.2	0.078						0.281	0.449	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Vanadium	6.64	MG_KG		17.6	6	580	39	Y					0.281	0.702	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS174-IC-11C	N	Zinc	6.95	MG_KG		28.6	1200	35000	2300	Y					0.281	1.12	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	2-Nitrotoluene	766	UG_KG	J			15000	3200	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Aluminum	4370	MG_KG		12800		100000	7700	Y					3.15	12.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Antimony	0.504	MG_KG	UJ	1.87	0.9	47	3.1						0.315	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Arsenic	1.08	MG_KG		1.17	5.8	3	0.67	Y					0.189	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Barium	15.4	MG_KG		36.7	580	22000	1500	Y					0.315	2.52	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Beryllium	0.185	MG_KG	J	0.195	63	230	16	Y					0.0631	0.315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Cadmium	0.126	MG_KG	U	0.2	3	98	7						0.0631	0.315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Calcium	12100	MG_KG		8470				Y	Y				63.1	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Chromium	3.79	MG_KG		17.4	3.8	6.3	0.3	Y					0.126	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Cobalt	0.405	MG_KG	J	0.414	0.9	35	2.3	Y					0.315	0.788	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Copper	1.72	MG_KG		17.1	700	4700	310	Y					0.252	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Iron	2270	MG_KG		7210	150	82000	5500	Y					1.89	6.31	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Lead	6.61	MG_KG		27.5	270	800	400	Y					0.0946	0.189	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Magnesium	326	MG_KG		904				Y					63.1	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Manganese	23.5	MG_KG		37	65	2600	180	Y					0.189	0.946	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Mercury	0.0424	MG_KG	U	0.161	1	35	2.3						0.0167	0.0424	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Nickel	1.61	MG_KG		3.11	130	2200	150	Y					0.189	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Perchlorate	2.48	UG_KG	U			82000	5500						0.745	6.21	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Potassium	128	MG_KG	J	359				Y					63.1	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Selenium	0.315	MG_KG	U	1.59	1.5	580	39						0.189	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Silver	0.126	MG_KG	U	0.354	3.4	580	39						0.126	0.631	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Sodium	189	MG_KG	U	250									63.1	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Thallium	0.252	MG_KG	U		0.28	1.2	0.078						0.252	0.504	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Vanadium	5.85	MG_KG		17.6	6	580	39	Y					0.315	0.788	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS175-OC-11C	N	Zinc	6.72	MG_KG		28.6	1200	35000	2300	Y					0.315	1.26	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	2-Nitrotoluene	868	UG_KG	J			15000	3200	Y					69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Aluminum	4400	MG_KG		12800		100000	7700	Y					3.29	13.2	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Antimony	0.526	MG_KG	UJ	1.87	0.9	47	3.1						0.329	0.658	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.197	0.658	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Barium	15.1	MG_KG		36.7	580	22000	1500	Y					0.329	2.63	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Beryllium	0.172	MG_KG	J	0.195	63	230	16	Y					0.0658	0.329	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Cadmium	0.132	MG_KG	U	0.2	3	98	7						0.0658	0.329	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Calcium	7670	MG_KG		8470				Y					65.8	329	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Chromium	3.77	MG_KG		17.4	3.8	6.3	0.3	Y					0.132	0.658	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Cobalt	0.41	MG_KG	J	0.414	0.9	35	2.3	Y					0.329	0.822	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Copper	1.66	MG_KG		17.1	700	4700	310	Y					0.263	0.658	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	HMX	138	UG_KG	U			5700000	380000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Iron	2270	MG_KG		7210	150	82000	5500	Y					1.97	6.58	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Lead	6.49	MG_KG		27.5	270	800	400	Y					0.0986	0.197	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Magnesium	251	MG_KG	J	904				Y					65.8	329	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Manganese	23	MG_KG		37	65	2600	180	Y					0.197	0.986	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Mercury	0.0436	MG_KG	U	0.161	1	35	2.3						0.0172	0.0436	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Nickel	1.54	MG_KG		3.11	130	2200	150	Y					0.197	0.658	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Perchlorate	0.836	UG_KG	J			82000	5500	Y					0.793	6.61	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	PETN	345	UG_KG	U			160000	12000						172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Potassium	124	MG_KG	J	359				Y					65.8	329	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	RDX	138	UG_KG	U			28000	6000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Selenium	0.329	MG_KG	U	1.59	1.5	580	39						0.197	0.658	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Silver	0.132	MG_KG	U	0.354	3.4	580	39						0.0658	0.658	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Sodium	197	MG_KG	U	250									65.8	329	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Tetryl	138	UG_KG	U			160000	12000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Thallium	0.263	MG_KG	U		0.28	1.2	0.078						0.263	0.526	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Vanadium	5.85	MG_KG		17.6	6	580	39	Y					0.329	0.822	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS176-IC-11C	N	Zinc	6.64	MG_KG		28.6	1200	35000	2300	Y					0.329	1.32	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	2-Nitrotoluene	787	UG_KG				15000	3200	Y					83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Aluminum	4660	MG_KG		12800		100000	7700	Y					2.75	11	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Antimony	0.44	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Arsenic	1.09	MG_KG		1.17	5.8	3	0.67	Y					0.165	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Barium	16.5	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Beryllium	0.182	MG_KG	J	0.195	63	230	16	Y					0.055	0.275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.055	0.275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Calcium	10500	MG_KG		8470				Y	Y				55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Chromium	3.87	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Cobalt	0.446	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.275	0.687	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Copper	1.8	MG_KG		17.1	700	4700	310	Y					0.22	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Iron	2370	MG_KG		7210	150	82000	5500	Y					1.65	5.5	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Lead	7.04	MG_KG		27.5	270	800	400	Y					0.0825	0.165	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Magnesium	300	MG_KG		904				Y					55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Manganese	24	MG_KG		37	65	2600	180	Y					0.165	0.825	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Mercury	0.0379	MG_KG	U	0.161	1	35	2.3						0.0149	0.0379	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Nickel	1.67	MG_KG		3.11	130	2200	150	Y					0.165	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Perchlorate	2.22	UG_KG	U			82000	5500						0.666	5.55	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	PETN	417	UG_KG	U			160000	12000						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Potassium	130	MG_KG	J	359				Y					55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	RDX	167	UG_KG	U			28000	6000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Sodium	165	MG_KG	U	250									55	275	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.22	0.44	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Vanadium	6.29	MG_KG		17.6	6	580	39	Y					0.275	0.687	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS177-OC-11C	N	Zinc	8	MG_KG		28.6	1200	35000	2300	Y					0.275	1.1	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	2-Nitrotoluene	1090	UG_KG				15000	3200	Y					74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Aluminum	5470	MG_KG		12800		100000	7700	Y					2.86	11.4	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Antimony	0.458	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.572	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Arsenic	1.2	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.572	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Barium	18.3	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Beryllium	0.191	MG_KG	J	0.195	63	230	16	Y					0.0572	0.286	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.0572	0.286	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Calcium	11500	MG_KG		8470				Y	Y				57.2	286	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Chromium	4.53	MG_KG		17.4	3.8	6.3	0.3	Y					0.114	0.572	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Cobalt	0.527	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.286	0.715	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Copper	1.8	MG_KG	J	17.1	700	4700	310	Y					0.229	0.572	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Iron	2780	MG_KG		7210	150	82000	5500	Y					1.72	5.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Lead	7.14	MG_KG		27.5	270	800	400	Y					0.0858	0.172	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Magnesium	339	MG_KG		904				Y					57.2	286	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Manganese	24.8	MG_KG	J	37	65	2600	180	Y					0.172	0.858	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Mercury	0.037	MG_KG	U	0.161	1	35	2.3						0.0146	0.037	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Nickel	1.85	MG_KG		3.11	130	2200	150	Y					0.172	0.572	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Perchlorate	2.24	UG_KG	U			82000	5500						0.673	5.61	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	PETN	370	UG_KG	U			160000	12000						185	741	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Potassium	154	MG_KG	J	359				Y					57.2	286	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	RDX	148	UG_KG	U			28000	6000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Selenium	0.286	MG_KG	U	1.59	1.5	580	39						0.172	0.572	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.572	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Sodium	172	MG_KG	U	250									57.2	286	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.229	0.458	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Vanadium	7.23	MG_KG		17.6	6	580	39	Y					0.286	0.715	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS178-IC-11C	N	Zinc	7.25	MG_KG		28.6	1200	35000	2300	Y					0.286	1.14	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	2-Nitrotoluene	486	UG_KG				15000	3200	Y					90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Aluminum	5340	MG_KG		12800		100000	7700	Y					2.73	10.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Antimony	0.436	MG_KG	UJ	1.87	0.9	47	3.1						0.273	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Arsenic	1.28	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Barium	18.8	MG_KG		36.7	580	22000	1500	Y					0.273	2.18	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Beryllium	0.198	MG_KG	J	0.195	63	230	16	Y	Y				0.0545	0.273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0545	0.273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Calcium	9750	MG_KG		8470				Y	Y				54.5	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Chromium	4.41	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Cobalt	0.51	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.273	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Copper	1.99	MG_KG	J	17.1	700	4700	310	Y					0.218	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Iron	2720	MG_KG		7210	150	82000	5500	Y					1.64	5.45	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Lead	8.25	MG_KG		27.5	270	800	400	Y					0.0818	0.164	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Magnesium	315	MG_KG		904				Y					54.5	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Manganese	26.7	MG_KG	J	37	65	2600	180	Y					0.164	0.818	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Mercury	0.0332	MG_KG	U	0.161	1	35	2.3						0.0131	0.0332	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Nickel	1.88	MG_KG		3.11	130	2200	150	Y					0.164	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Perchlorate	2.21	UG_KG	U			82000	5500						0.664	5.53	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Potassium	153	MG_KG	J	359				Y					54.5	273	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	RDX	182	UG_KG	U			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Selenium	0.273	MG_KG	U	1.59	1.5	580	39						0.164	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.109	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Sodium	164	MG_KG	U	250									54.5	273	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Thallium	0.273	MG_KG	U		0.28	1.2	0.078						0.273	0.436	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Vanadium	7.17	MG_KG		17.6	6	580	39	Y					0.273	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS179-OC-11C	N	Zinc	9.71	MG_KG		28.6	1200	35000	2300	Y					0.273	1.09	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	2-Nitrotoluene	540	UG_KG	J			15000	3200	Y					83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Aluminum	4850	MG_KG		12800		100000	7700	Y					2.67	10.7	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Antimony	0.427	MG_KG	UJ	1.87	0.9	47	3.1						0.267	0.534	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Arsenic	1.13	MG_KG		1.17	5.8	3	0.67	Y					0.16	0.534	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Barium	17	MG_KG		36.7	580	22000	1500	Y					0.267	2.14	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Beryllium	0.178	MG_KG	J	0.195	63	230	16	Y					0.0534	0.267	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Cadmium	0.0539	MG_KG	J	0.2	3	98	7	Y					0.0534	0.267	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Calcium	12600	MG_KG		8470				Y	Y				53.4	267	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Chromium	4.11	MG_KG		17.4	3.8	6.3	0.3	Y					0.107	0.534	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Cobalt	0.483	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.267	0.668	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Copper	1.91	MG_KG	J	17.1	700	4700	310	Y					0.214	0.534	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Iron	2410	MG_KG		7210	150	82000	5500	Y					1.6	5.34	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Lead	7.09	MG_KG		27.5	270	800	400	Y					0.0801	0.16	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Magnesium	355	MG_KG		904				Y					53.4	267	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Manganese	24.8	MG_KG	J	37	65	2600	180	Y					0.16	0.801	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Mercury	0.0322	MG_KG	U	0.161	1	35	2.3						0.0127	0.033	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Nickel	1.68	MG_KG		3.11	130	2200	150	Y					0.16	0.534	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Perchlorate	2.21	UG_KG	U			82000	5500						0.663	5.53	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	PETN	417	UG_KG	U			160000	12000						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Potassium	146	MG_KG	J	359				Y					53.4	267	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	RDX	167	UG_KG	U			28000	6000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Selenium	0.267	MG_KG	U	1.59	1.5	580	39						0.16	0.534	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Silver	0.107	MG_KG	U	0.354	3.4	580	39						0.107	0.534	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Sodium	160	MG_KG	U	250									53.4	267	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Thallium	0.214	MG_KG	U		0.28	1.2	0.078						0.214	0.427	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Vanadium	6.45	MG_KG		17.6	6	580	39	Y					0.267	0.668	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS180-IC-11C	N	Zinc	9.48	MG_KG		28.6	1200	35000	2300	Y					0.267	1.07	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	2-Nitrotoluene	359	UG_KG	J			15000	3200	Y					90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Aluminum	4520	MG_KG		12800		100000	7700	Y					3.2	12.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Antimony	0.512	MG_KG	UJ	1.87	0.9	47	3.1						0.32	0.64	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Arsenic	1.17	MG_KG		1.17	5.8	3	0.67	Y					0.192	0.64	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Barium	19.5	MG_KG		36.7	580	22000	1500	Y					0.32	2.56	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Beryllium	0.201	MG_KG	J	0.195	63	230	16	Y	Y				0.064	0.32	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Cadmium	0.0664	MG_KG	J	0.2	3	98	7	Y					0.064	0.32	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Calcium	167	MG_KG	J	8470				Y					64	320	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Chromium	3.11	MG_KG		17.4	3.8	6.3	0.3	Y					0.128	0.64	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Cobalt	0.325	MG_KG	J	0.414	0.9	35	2.3	Y					0.32	0.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Copper	10.8	MG_KG	J	17.1	700	4700	310	Y					0.256	0.64	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Iron	2370	MG_KG		7210	150	82000	5500	Y					1.92	6.4	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Lead	11.8	MG_KG		27.5	270	800	400	Y					0.096	0.192	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Magnesium	153	MG_KG	J	904				Y					64	320	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Manganese	22.6	MG_KG	J	37	65	2600	180	Y					0.192	0.96	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Mercury	0.0189	MG_KG	J	0.161	1	35	2.3	Y					0.0168	0.0426	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Nickel	1.45	MG_KG		3.11	130	2200	150	Y					0.192	0.64	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Perchlorate	2.5	UG_KG	U			82000	5500						0.749	6.24	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Potassium	121	MG_KG	J	359				Y					64	320	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	RDX	182	UG_KG	U			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Selenium	0.224	MG_KG	J	1.59	1.5	580	39	Y					0.192	0.64	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Silver	0.128	MG_KG	U	0.354	3.4	580	39						0.064	0.64	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Sodium	192	MG_KG	U	250									64	320	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Thallium	0.256	MG_KG	U		0.28	1.2	0.078						0.256	0.512	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Vanadium	5.19	MG_KG		17.6	6	580	39	Y					0.32	0.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS181-OC-11C	N	Zinc	16.6	MG_KG		28.6	1200	35000	2300	Y					0.32	1.28	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Aluminum	4630	MG_KG		12800		100000	7700	Y					3.13	12.5	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Antimony	0.502	MG_KG	UJ	1.87	0.9	47	3.1						0.313	0.627	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Arsenic	1.11	MG_KG		1.17	5.8	3	0.67	Y					0.188	0.627	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Barium	18.9	MG_KG		36.7	580	22000	1500	Y					0.313	2.51	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Beryllium	0.203	MG_KG	J	0.195	63	230	16	Y	Y				0.0627	0.313	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Cadmium	0.0836	MG_KG	J	0.2	3	98	7	Y					0.0627	0.313	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Calcium	181	MG_KG	J	8470				Y					62.7	313	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Chromium	3.23	MG_KG		17.4	3.8	6.3	0.3	Y					0.125	0.627	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Cobalt	0.627	MG_KG	U	0.414	0.9	35	2.3						0.313	0.784	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Copper	10.8	MG_KG	J	17.1	700	4700	310	Y					0.251	0.627	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Iron	2470	MG_KG		7210	150	82000	5500	Y					1.88	6.27	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Lead	11.1	MG_KG		27.5	270	800	400	Y					0.094	0.188	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Magnesium	155	MG_KG	J	904				Y					62.7	313	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Manganese	22	MG_KG	J	37	65	2600	180	Y					0.188	0.94	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Mercury	0.0159	MG_KG	J	0.161	1	35	2.3	Y					0.0151	0.0384	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Nickel	1.47	MG_KG		3.11	130	2200	150	Y					0.188	0.627	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Perchlorate	2.56	UG_KG	U			82000	5500						0.767	6.39	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Potassium	120	MG_KG	J	359				Y					62.7	313	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	RDX	182	UG_KG	U			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Selenium	0.313	MG_KG	U	1.59	1.5	580	39						0.188	0.627	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Silver	0.125	MG_KG	U	0.354	3.4	580	39						0.0627	0.627	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Sodium	188	MG_KG	U	250									62.7	313	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Thallium	0.251	MG_KG	U		0.28	1.2	0.078						0.251	0.502	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Vanadium	5.16	MG_KG		17.6	6	580	39	Y					0.313	0.784	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS182-IC-11C	N	Zinc	14.7	MG_KG		28.6	1200	35000	2300	Y					0.313	1.25	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	2-Nitrotoluene	2330	UG_KG	J			15000	3200	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	3-Nitrotoluene	165	UG_KG	J			8200	620	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Aluminum	4160	MG_KG		12800		100000	7700	Y					3.16	12.7	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Antimony	0.506	MG_KG	UJ	1.87	0.9	47	3.1						0.316	0.633	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Arsenic	0.999	MG_KG		1.17	5.8	3	0.67	Y					0.19	0.633	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Barium	17.7	MG_KG		36.7	580	22000	1500	Y					0.316	2.53	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Beryllium	0.191	MG_KG	J	0.195	63	230	16	Y					0.0633	0.316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Cadmium	0.0745	MG_KG	J	0.2	3	98	7	Y					0.0633	0.316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Calcium	264	MG_KG	J	8470				Y					63.3	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Chromium	2.85	MG_KG		17.4	3.8	6.3	0.3	Y					0.127	0.633	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Cobalt	0.633	MG_KG	U	0.414	0.9	35	2.3						0.316	0.791	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Copper	16	MG_KG	J	17.1	700	4700	310	Y					0.253	0.633	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Iron	2280	MG_KG		7210	150	82000	5500	Y					1.9	6.33	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Lead	10.7	MG_KG		27.5	270	800	400	Y					0.0949	0.19	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Magnesium	150	MG_KG	J	904				Y					63.3	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Manganese	25.5	MG_KG	J	37	65	2600	180	Y					0.19	0.949	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Mercury	0.0457	MG_KG	U	0.161	1	35	2.3						0.018	0.0457	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Nickel	1.36	MG_KG		3.11	130	2200	150	Y					0.19	0.633	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Nitrobenzene	497	UG_KG	J			22000	5100	Y					87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Perchlorate	2.58	UG_KG	U			82000	5500						0.775	6.46	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Potassium	123	MG_KG	J	359				Y					63.3	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Selenium	0.316	MG_KG	U	1.59	1.5	580	39						0.19	0.633	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Silver	0.127	MG_KG	U	0.354	3.4	580	39						0.0633	0.633	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Sodium	69	MG_KG	J	250				Y					63.3	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Thallium	0.316	MG_KG	U		0.28	1.2	0.078						0.316	0.506	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Vanadium	4.74	MG_KG		17.6	6	580	39	Y					0.316	0.791	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183D-OC-11C	FD	Zinc	18.3	MG_KG		28.6	1200	35000	2300	Y					0.316	1.27	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	2-Nitrotoluene	269	UG_KG	J			15000	3200	Y					71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Aluminum	4370	MG_KG		12800		100000	7700	Y					3.02	12.1	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Antimony	0.483	MG_KG	UJ	1.87	0.9	47	3.1						0.302	0.603	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Arsenic	0.974	MG_KG		1.17	5.8	3	0.67	Y					0.181	0.603	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Barium	21.1	MG_KG		36.7	580	22000	1500	Y					0.302	2.41	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Beryllium	0.181	MG_KG	J	0.195	63	230	16	Y					0.0603	0.302	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Cadmium	0.121	MG_KG	U	0.2	3	98	7						0.0603	0.302	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Calcium	322	MG_KG		8470				Y					60.3	302	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Chromium	3.04	MG_KG		17.4	3.8	6.3	0.3	Y					0.121	0.603	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Cobalt	0.308	MG_KG	J	0.414	0.9	35	2.3	Y					0.302	0.754	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Copper	4.75	MG_KG	J	17.1	700	4700	310	Y					0.241	0.603	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Iron	2300	MG_KG		7210	150	82000	5500	Y					1.81	6.03	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Lead	11.3	MG_KG		27.5	270	800	400	Y					0.0905	0.181	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Magnesium	183	MG_KG	J	904				Y					60.3	302	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Manganese	39.1	MG_KG	J	37	65	2600	180	Y	Y				0.181	0.905	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Mercury	0.0209	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.033	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Nickel	1.57	MG_KG		3.11	130	2200	150	Y					0.181	0.603	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Perchlorate	2.51	UG_KG	U			82000	5500						0.753	6.28	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	PETN	357	UG_KG	U			160000	12000						179	714	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Potassium	151	MG_KG	J	359				Y					60.3	302	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	RDX	143	UG_KG	U			28000	6000						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Selenium	0.302	MG_KG	U	1.59	1.5	580	39						0.181	0.603	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Silver	0.121	MG_KG	U	0.354	3.4	580	39						0.0603	0.603	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Sodium	181	MG_KG	U	250									60.3	302	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Thallium	0.241	MG_KG	U		0.28	1.2	0.078						0.181	0.483	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Vanadium	5.41	MG_KG		17.6	6	580	39	Y					0.302	0.754	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS183-OC-11C	N	Zinc	10.8	MG_KG		28.6	1200	35000	2300	Y					0.302	1.21	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Aluminum	4660	MG_KG		12800		100000	7700	Y					3.06	12.2	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Antimony	0.489	MG_KG	UJ	1.87	0.9	47	3.1						0.306	0.611	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Arsenic	1.08	MG_KG		1.17	5.8	3	0.67	Y					0.183	0.611	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Barium	18.7	MG_KG		36.7	580	22000	1500	Y					0.306	2.44	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Beryllium	0.205	MG_KG	J	0.195	63	230	16	Y	Y				0.0611	0.306	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Cadmium	0.122	MG_KG	U	0.2	3	98	7						0.0611	0.306	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Calcium	140	MG_KG	J	8470				Y					61.1	306	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Chromium	3.22	MG_KG		17.4	3.8	6.3	0.3	Y					0.122	0.611	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Cobalt	0.341	MG_KG	J	0.414	0.9	35	2.3	Y					0.306	0.764	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Copper	13	MG_KG	J	17.1	700	4700	310	Y					0.244	0.611	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Iron	2560	MG_KG		7210	150	82000	5500	Y					1.83	6.11	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Lead	11.2	MG_KG		27.5	270	800	400	Y					0.0917	0.183	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Magnesium	155	MG_KG	J	904				Y					61.1	306	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Manganese	25.2	MG_KG	J	37	65	2600	180	Y					0.183	0.917	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Mercury	0.0198	MG_KG	J	0.161	1	35	2.3	Y					0.0151	0.0384	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Nickel	1.58	MG_KG		3.11	130	2200	150	Y					0.183	0.611	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Perchlorate	2.48	UG_KG	U			82000	5500						0.744	6.2	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Potassium	121	MG_KG	J	359				Y					61.1	306	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	RDX	154	UG_KG	U			28000	6000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Selenium	0.306	MG_KG	U	1.59	1.5	580	39						0.183	0.611	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Silver	0.122	MG_KG	U	0.354	3.4	580	39						0.122	0.611	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Sodium	183	MG_KG	U	250									61.1	306	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Thallium	0.244	MG_KG	U		0.28	1.2	0.078						0.244	0.489	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Vanadium	5.2	MG_KG		17.6	6	580	39	Y					0.306	0.764	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS184-IC-11C	N	Zinc	15.9	MG_KG		28.6	1200	35000	2300	Y					0.306	1.22	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	2-Nitrotoluene	109	UG_KG	J			15000	3200	Y					74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Aluminum	4760	MG_KG		12800		100000	7700	Y					3.18	12.7	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Antimony	0.508	MG_KG	UJ	1.87	0.9	47	3.1						0.318	0.635	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Arsenic	1.11	MG_KG		1.17	5.8	3	0.67	Y					0.191	0.635	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Barium	19.2	MG_KG		36.7	580	22000	1500	Y					0.318	2.54	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Beryllium	0.211	MG_KG	J	0.195	63	230	16	Y	Y				0.0635	0.318	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Cadmium	0.127	MG_KG	U	0.2	3	98	7						0.0635	0.318	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Calcium	170	MG_KG	J	8470				Y					63.5	318	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Chromium	3.3	MG_KG		17.4	3.8	6.3	0.3	Y					0.127	0.635	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Cobalt	0.344	MG_KG	J	0.414	0.9	35	2.3	Y					0.318	0.794	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Copper	8.65	MG_KG	J	17.1	700	4700	310	Y					0.254	0.635	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Iron	2290	MG_KG		7210	150	82000	5500	Y					1.91	6.35	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Lead	10.3	MG_KG		27.5	270	800	400	Y					0.0953	0.191	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Magnesium	167	MG_KG	J	904				Y					63.5	318	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Manganese	25.3	MG_KG	J	37	65	2600	180	Y					0.191	0.953	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Mercury	0.0169	MG_KG	J	0.161	1	35	2.3	Y					0.0161	0.0409	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Nickel	1.59	MG_KG		3.11	130	2200	150	Y					0.191	0.635	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Perchlorate	2.48	UG_KG	U			82000	5500						0.743	6.19	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	PETN	370	UG_KG	U			160000	12000						185	741	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Potassium	127	MG_KG	J	359				Y					63.5	318	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	RDX	148	UG_KG	U			28000	6000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Selenium	0.318	MG_KG	U	1.59	1.5	580	39						0.191	0.635	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Silver	0.127	MG_KG	U	0.354	3.4	580	39						0.0635	0.635	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Sodium	191	MG_KG	U	250									63.5	318	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Thallium	0.254	MG_KG	U		0.28	1.2	0.078						0.254	0.508	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Vanadium	5.35	MG_KG		17.6	6	580	39	Y					0.318	0.794	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS185-OC-11C	N	Zinc	14	MG_KG		28.6	1200	35000	2300	Y					0.318	1.27	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	2-Nitrotoluene	1930	UG_KG				15000	3200	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Aluminum	4820	MG_KG		12800		100000	7700	Y					3.16	12.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Antimony	0.505	MG_KG	UJ	1.87	0.9	47	3.1						0.316	0.632	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.189	0.632	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Barium	20.6	MG_KG		36.7	580	22000	1500	Y					0.316	2.53	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Beryllium	0.212	MG_KG	J	0.195	63	230	16	Y	Y				0.0632	0.316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Cadmium	0.0743	MG_KG	J	0.2	3	98	7	Y					0.0632	0.316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Calcium	180	MG_KG	J	8470				Y					63.2	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Chromium	3.37	MG_KG		17.4	3.8	6.3	0.3	Y					0.126	0.632	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Cobalt	0.341	MG_KG	J	0.414	0.9	35	2.3	Y					0.316	0.789	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Copper	8.05	MG_KG	J	17.1	700	4700	310	Y					0.253	0.632	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Iron	2410	MG_KG		7210	150	82000	5500	Y					1.89	6.32	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Lead	11.3	MG_KG		27.5	270	800	400	Y					0.0947	0.189	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Magnesium	175	MG_KG	J	904				Y					63.2	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Manganese	25.8	MG_KG	J	37	65	2600	180	Y					0.189	0.947	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Mercury	0.0156	MG_KG	J	0.161	1	35	2.3	Y					0.0147	0.0373	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Nickel	1.59	MG_KG		3.11	130	2200	150	Y					0.189	0.632	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Perchlorate	2.56	UG_KG	U			82000	5500						0.769	6.41	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Potassium	136	MG_KG	J	359				Y					63.2	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Selenium	0.316	MG_KG	U	1.59	1.5	580	39						0.189	0.632	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Silver	0.126	MG_KG	U	0.354	3.4	580	39						0.126	0.632	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Sodium	189	MG_KG	U	250									63.2	316	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Thallium	0.316	MG_KG	U		0.28	1.2	0.078						0.316	0.505	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Vanadium	5.55	MG_KG		17.6	6	580	39	Y					0.316	0.789	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS186-IC-11C	N	Zinc	15.9	MG_KG		28.6	1200	35000	2300	Y					0.316	1.26	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	2-Nitrotoluene	2570	UG_KG				15000	3200	Y					83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Aluminum	4800	MG_KG		12800		100000	7700	Y					3.46	13.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Antimony	0.554	MG_KG	UJ	1.87	0.9	47	3.1						0.346	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Arsenic	1.27	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.208	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Barium	19.1	MG_KG		36.7	580	22000	1500	Y					0.346	2.77	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Beryllium	0.216	MG_KG	J	0.195	63	230	16	Y	Y				0.0693	0.346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Cadmium	0.0778	MG_KG	J	0.2	3	98	7	Y					0.0693	0.346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Calcium	113	MG_KG	J	8470				Y					69.3	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Chromium	3.33	MG_KG		17.4	3.8	6.3	0.3	Y					0.139	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Cobalt	0.349	MG_KG	J	0.414	0.9	35	2.3	Y					0.346	0.866	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Copper	9.63	MG_KG	J	17.1	700	4700	310	Y					0.277	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Iron	2470	MG_KG		7210	150	82000	5500	Y					2.08	6.93	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Lead	10.6	MG_KG		27.5	270	800	400	Y					0.104	0.208	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Magnesium	165	MG_KG	J	904				Y					69.3	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Manganese	22.9	MG_KG	J	37	65	2600	180	Y					0.208	1.04	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Mercury	0.0169	MG_KG	J	0.161	1	35	2.3	Y					0.0159	0.0403	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Nickel	1.54	MG_KG		3.11	130	2200	150	Y					0.208	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Perchlorate	2.77	UG_KG	U			82000	5500						0.831	6.93	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	PETN	417	UG_KG	U			160000	12000						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Potassium	136	MG_KG	J	359				Y					69.3	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	RDX	167	UG_KG	U			28000	6000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Selenium	0.346	MG_KG	U	1.59	1.5	580	39						0.208	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Silver	0.139	MG_KG	U	0.354	3.4	580	39						0.0693	0.693	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Sodium	208	MG_KG	U	250									69.3	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Thallium	0.277	MG_KG	U		0.28	1.2	0.078						0.208	0.554	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Vanadium	5.29	MG_KG		17.6	6	580	39	Y					0.346	0.866	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS187-OC-11C	N	Zinc	14.5	MG_KG		28.6	1200	35000	2300	Y					0.346	1.39	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	1,3-Dinitrobenzene	81.3	UG_KG	J			8200	620	Y					80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	08/12/11	SVOA	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	2-Nitrotoluene	920	UG_KG				15000	3200	Y					80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Aluminum	4680	MG_KG		12800		100000	7700	Y					3.25	13	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Antimony	0.521	MG_KG	UJ	1.87	0.9	47	3.1						0.325	0.651	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Arsenic	1.13	MG_KG		1.17	5.8	3	0.67	Y					0.195	0.651	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Barium	19.8	MG_KG		36.7	580	22000	1500	Y					0.325	2.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Beryllium	0.219	MG_KG	J	0.195	63	230	16	Y	Y				0.0651	0.325	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Cadmium	0.13	MG_KG	U	0.2	3	98	7						0.0651	0.325	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Calcium	155	MG_KG	J	8470				Y					65.1	325	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Chromium	3.26	MG_KG		17.4	3.8	6.3	0.3	Y					0.13	0.651	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Cobalt	0.342	MG_KG	J	0.414	0.9	35	2.3	Y					0.325	0.813	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Copper	10.1	MG_KG	J	17.1	700	4700	310	Y					0.26	0.651	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	HMX	160	UG_KG	U			5700000	380000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Iron	2470	MG_KG		7210	150	82000	5500	Y					1.95	6.51	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Lead	11.4	MG_KG		27.5	270	800	400	Y					0.0976	0.195	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Magnesium	165	MG_KG	J	904				Y					65.1	325	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Manganese	26	MG_KG	J	37	65	2600	180	Y					0.195	0.976	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Mercury	0.0398	MG_KG	U	0.161	1	35	2.3						0.0157	0.0398	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Nickel	1.53	MG_KG		3.11	130	2200	150	Y					0.195	0.651	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Perchlorate	2.73	UG_KG	U			82000	5500						0.82	6.83	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	PETN	400	UG_KG	U			160000	12000						200	800	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Potassium	127	MG_KG	J	359				Y					65.1	325	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	RDX	160	UG_KG	U			28000	6000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Selenium	0.325	MG_KG	U	1.59	1.5	580	39						0.195	0.651	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Silver	0.13	MG_KG	U	0.354	3.4	580	39						0.0651	0.651	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Sodium	195	MG_KG	U	250									65.1	325	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Tetryl	160	UG_KG	U			160000	12000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Thallium	0.26	MG_KG	U		0.28	1.2	0.078						0.26	0.521	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Vanadium	5.39	MG_KG		17.6	6	580	39	Y					0.325	0.813	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS188-IC-11C	N	Zinc	16.7	MG_KG		28.6	1200	35000	2300	Y					0.325	1.3	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Aluminum	4690	MG_KG		12800		100000	7700	Y					3.14	12.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Antimony	0.503	MG_KG	UJ	1.87	0.9	47	3.1						0.314	0.628	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.188	0.628	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Barium	19.9	MG_KG		36.7	580	22000	1500	Y					0.314	2.51	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Beryllium	0.208	MG_KG	J	0.195	63	230	16	Y	Y				0.0628	0.314	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Cadmium	0.126	MG_KG	U	0.2	3	98	7						0.0628	0.314	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Calcium	132	MG_KG	J	8470				Y					62.8	314	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Chromium	3.31	MG_KG		17.4	3.8	6.3	0.3	Y					0.126	0.628	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Cobalt	0.343	MG_KG	J	0.414	0.9	35	2.3	Y					0.314	0.785	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Copper	7.85	MG_KG	J	17.1	700	4700	310	Y					0.251	0.628	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Iron	2320	MG_KG		7210	150	82000	5500	Y					1.88	6.28	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Lead	11	MG_KG		27.5	270	800	400	Y					0.0942	0.188	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Magnesium	168	MG_KG	J	904				Y					62.8	314	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Manganese	24.6	MG_KG	J	37	65	2600	180	Y					0.188	0.942	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Mercury	0.0157	MG_KG	J	0.161	1	35	2.3	Y					0.0152	0.0385	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Nickel	1.57	MG_KG		3.11	130	2200	150	Y					0.188	0.628	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Perchlorate	2.49	UG_KG	U			82000	5500						0.746	6.22	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	PETN	385	UG_KG	U			160000	12000						192	769	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Potassium	130	MG_KG	J	359				Y					62.8	314	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	RDX	154	UG_KG	U			28000	6000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Selenium	0.314	MG_KG	U	1.59	1.5	580	39						0.188	0.628	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Silver	0.126	MG_KG	U	0.354	3.4	580	39						0.126	0.628	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Sodium	188	MG_KG	U	250									62.8	314	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Thallium	0.251	MG_KG	U		0.28	1.2	0.078						0.251	0.503	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Vanadium	5.51	MG_KG		17.6	6	580	39	Y					0.314	0.785	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS189-OC-11C	N	Zinc	14.9	MG_KG		28.6	1200	35000	2300	Y					0.314	1.26	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	2-Nitrotoluene	702	UG_KG				15000	3200	Y					100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Aluminum	4670	MG_KG		12800		100000	7700	Y					3.04	12.2	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Antimony	0.487	MG_KG	UJ	1.87	0.9	47	3.1						0.304	0.608	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Arsenic	1.05	MG_KG		1.17	5.8	3	0.67	Y					0.182	0.608	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Barium	18.8	MG_KG		36.7	580	22000	1500	Y					0.304	2.43	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Beryllium	0.206	MG_KG	J	0.195	63	230	16	Y	Y				0.0608	0.304	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Cadmium	0.122	MG_KG	U	0.2	3	98	7						0.0608	0.304	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Calcium	156	MG_KG	J	8470				Y					60.8	304	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Chromium	3.24	MG_KG		17.4	3.8	6.3	0.3	Y					0.122	0.608	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Cobalt	0.325	MG_KG	J	0.414	0.9	35	2.3	Y					0.304	0.76	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Copper	8.17	MG_KG	J	17.1	700	4700	310	Y					0.243	0.608	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	HMX	200	UG_KG	U			5700000	380000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Iron	2380	MG_KG		7210	150	82000	5500	Y					1.82	6.08	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Lead	10.4	MG_KG		27.5	270	800	400	Y					0.0912	0.182	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Magnesium	162	MG_KG	J	904				Y					60.8	304	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Manganese	21.3	MG_KG	J	37	65	2600	180	Y					0.182	0.912	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Mercury	0.0158	MG_KG	J	0.161	1	35	2.3	Y					0.0131	0.0332	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Nickel	1.53	MG_KG		3.11	130	2200	150	Y					0.182	0.608	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Perchlorate	2.48	UG_KG	U			82000	5500						0.744	6.2	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	PETN	500	UG_KG	U			160000	12000						250	1000	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Potassium	126	MG_KG	J	359				Y					60.8	304	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	RDX	200	UG_KG	U			28000	6000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Selenium	0.304	MG_KG	U	1.59	1.5	580	39						0.182	0.608	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Silver	0.122	MG_KG	U	0.354	3.4	580	39						0.122	0.608	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Sodium	182	MG_KG	U	250									60.8	304	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Tetryl	200	UG_KG	U			160000	12000						100	400	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Thallium	0.304	MG_KG	U		0.28	1.2	0.078						0.304	0.487	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Vanadium	5.29	MG_KG		17.6	6	580	39	Y					0.304	0.76	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS190-IC-11C	N	Zinc	14.1	MG_KG		28.6	1200	35000	2300	Y					0.304	1.22	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	2-Nitrotoluene	116	UG_KG	J			15000	3200	Y					90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Aluminum	5590	MG_KG		12800		100000	7700	Y					3.6	14.4	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Antimony	0.576	MG_KG	UJ	1.87	0.9	47	3.1						0.36	0.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.216	0.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Barium	26.7	MG_KG		36.7	580	22000	1500	Y					0.36	2.88	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Beryllium	0.243	MG_KG	J	0.195	63	230	16	Y	Y				0.072	0.36	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Cadmium	0.1	MG_KG	J	0.2	3	98	7	Y					0.072	0.36	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Calcium	975	MG_KG		8470				Y					72	360	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Chromium	3.65	MG_KG		17.4	3.8	6.3	0.3	Y					0.144	0.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Cobalt	0.465	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.36	0.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Copper	10.4	MG_KG	J	17.1	700	4700	310	Y					0.288	0.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Iron	2420	MG_KG		7210	150	82000	5500	Y					2.16	7.2	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Lead	17.5	MG_KG		27.5	270	800	400	Y					0.108	0.216	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Magnesium	265	MG_KG	J	904				Y					72	360	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Manganese	69	MG_KG	J	37	65	2600	180	Y	Y	Y			0.216	1.08	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Mercury	0.0245	MG_KG	J	0.161	1	35	2.3	Y					0.0148	0.0375	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Nickel	1.97	MG_KG		3.11	130	2200	150	Y					0.216	0.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Perchlorate	2.81	UG_KG	U			82000	5500						0.842	7.02	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Potassium	183	MG_KG	J	359				Y					72	360	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	RDX	182	UG_KG	U			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Selenium	0.273	MG_KG	J	1.59	1.5	580	39	Y					0.216	0.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Silver	0.144	MG_KG	U	0.354	3.4	580	39						0.072	0.72	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Sodium	216	MG_KG	U	250									72	360	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Thallium	0.288	MG_KG	U		0.28	1.2	0.078						0.288	0.576	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Vanadium	5.84	MG_KG		17.6	6	580	39	Y					0.36	0.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS191-OC-11C	N	Zinc	29.7	MG_KG		28.6	1200	35000	2300	Y	Y				0.36	1.44	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	1,3-Dinitrobenzene	142	UG_KG	J			8200	620	Y					80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	2-Nitrotoluene	1070	UG_KG				15000	3200	Y					80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Aluminum	6370	MG_KG		12800		100000	7700	Y					3.22	12.9	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Antimony	0.516	MG_KG	UJ	1.87	0.9	47	3.1						0.322	0.645	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Arsenic	1.32	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.193	0.645	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Barium	23	MG_KG		36.7	580	22000	1500	Y					0.322	2.58	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Beryllium	0.283	MG_KG	J	0.195	63	230	16	Y	Y				0.0645	0.322	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Cadmium	0.0722	MG_KG	J	0.2	3	98	7	Y					0.0645	0.322	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Calcium	410	MG_KG		8470				Y					64.5	322	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Chromium	4.15	MG_KG		17.4	3.8	6.3	0.3	Y					0.129	0.645	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Cobalt	0.606	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.322	0.806	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Copper	16.7	MG_KG	J	17.1	700	4700	310	Y					0.258	0.645	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	HMX	160	UG_KG	U			5700000	380000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Iron	3450	MG_KG		7210	150	82000	5500	Y					1.93	6.45	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Lead	19.7	MG_KG		27.5	270	800	400	Y					0.0967	0.193	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Magnesium	227	MG_KG	J	904				Y					64.5	322	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Manganese	56	MG_KG	J	37	65	2600	180	Y	Y				0.193	0.967	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Mercury	0.0203	MG_KG	J	0.161	1	35	2.3	Y					0.0161	0.0409	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Nickel	2.06	MG_KG		3.11	130	2200	150	Y					0.193	0.645	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Perchlorate	2.64	UG_KG	U			82000	5500						0.793	6.61	08/12/11	EXPLO	6850	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	PETN	400	UG_KG	U			160000	12000						200	800	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Potassium	165	MG_KG	J	359				Y					64.5	322	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	RDX	160	UG_KG	U			28000	6000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Selenium	0.197	MG_KG	J	1.59	1.5	580	39	Y					0.193	0.645	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Silver	0.129	MG_KG	U	0.354	3.4	580	39						0.129	0.645	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Sodium	193	MG_KG	U	250									64.5	322	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Tetryl	160	UG_KG	U			160000	12000						80	320	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Thallium	0.387	MG_KG	U		0.28	1.2	0.078						0.387	0.516	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Vanadium	6.36	MG_KG		17.6	6	580	39	Y					0.322	0.806	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS192-IC-11C	N	Zinc	32.8	MG_KG		28.6	1200	35000	2300	Y	Y				0.322	1.29	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	1,3-Dinitrobenzene	124	UG_KG	J			8200	620	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	2-Nitrotoluene	553	UG_KG				15000	3200	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Aluminum	6160	MG_KG		12800		100000	7700	Y					3.46	13.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Antimony	0.553	MG_KG	UJ	1.87	0.9	47	3.1						0.346	0.691	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Arsenic	1.23	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.207	0.691	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Barium	28	MG_KG		36.7	580	22000	1500	Y					0.346	2.77	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Beryllium	0.234	MG_KG	J	0.195	63	230	16	Y	Y				0.0691	0.346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Cadmium	0.0971	MG_KG	J	0.2	3	98	7	Y					0.0691	0.346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Calcium	875	MG_KG		8470				Y					69.1	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Chromium	4.18	MG_KG		17.4	3.8	6.3	0.3	Y					0.138	0.691	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Cobalt	0.511	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.346	0.864	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Copper	14	MG_KG	J	17.1	700	4700	310	Y					0.277	0.691	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Iron	2780	MG_KG		7210	150	82000	5500	Y					2.07	6.91	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Lead	26.3	MG_KG		27.5	270	800	400	Y					0.104	0.207	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Magnesium	282	MG_KG	J	904				Y					69.1	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Manganese	72	MG_KG	J	37	65	2600	180	Y	Y	Y			0.207	1.04	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Mercury	0.0221	MG_KG	J	0.161	1	35	2.3	Y					0.0163	0.0413	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Nickel	2.11	MG_KG		3.11	130	2200	150	Y					0.207	0.691	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Perchlorate	2.75	UG_KG	U			82000	5500						0.825	6.88	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Potassium	203	MG_KG	J	359				Y					69.1	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Selenium	0.226	MG_KG	J	1.59	1.5	580	39	Y					0.207	0.691	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Silver	0.138	MG_KG	U	0.354	3.4	580	39						0.0691	0.691	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Sodium	207	MG_KG	U	250									69.1	346	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Tetryl	93.3	UG_KG	J			160000	12000	Y					87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Thallium	0.346	MG_KG	U		0.28	1.2	0.078						0.346	0.553	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Vanadium	6.9	MG_KG		17.6	6	580	39	Y					0.346	0.864	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS193-OC-11C	N	Zinc	49.1	MG_KG		28.6	1200	35000	2300	Y	Y				0.346	1.38	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	2-Nitrotoluene	751	UG_KG				15000	3200	Y					69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Aluminum	6320	MG_KG		12800		100000	7700	Y					3.41	13.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Antimony	0.545	MG_KG	UJ	1.87	0.9	47	3.1						0.341	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Arsenic	1.26	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.205	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Barium	25.2	MG_KG		36.7	580	22000	1500	Y					0.341	2.73	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Beryllium	0.249	MG_KG	J	0.195	63	230	16	Y	Y				0.0682	0.341	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Cadmium	0.103	MG_KG	J	0.2	3	98	7	Y					0.0682	0.341	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Calcium	524	MG_KG		8470				Y					68.2	341	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Chromium	4.23	MG_KG		17.4	3.8	6.3	0.3	Y					0.136	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Cobalt	0.511	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.341	0.852	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Copper	11.4	MG_KG	J	17.1	700	4700	310	Y					0.273	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	HMX	138	UG_KG	U			5700000	380000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Iron	2900	MG_KG		7210	150	82000	5500	Y					2.05	6.82	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Lead	21.5	MG_KG		27.5	270	800	400	Y					0.102	0.205	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Magnesium	248	MG_KG	J	904				Y					68.2	341	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Manganese	51.4	MG_KG	J	37	65	2600	180	Y	Y				0.205	1.02	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Mercury	0.0195	MG_KG	J	0.161	1	35	2.3	Y					0.0142	0.0359	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Nickel	2.11	MG_KG		3.11	130	2200	150	Y					0.205	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Perchlorate	2.69	UG_KG	U			82000	5500						0.806	6.72	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	PETN	345	UG_KG	U			160000	12000						172	690	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Potassium	186	MG_KG	J	359				Y					68.2	341	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	RDX	138	UG_KG	U			28000	6000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Selenium	0.341	MG_KG	U	1.59	1.5	580	39						0.205	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Silver	0.136	MG_KG	U	0.354	3.4	580	39						0.0682	0.682	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Sodium	205	MG_KG	U	250									68.2	341	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Tetryl	138	UG_KG	U			160000	12000						69	276	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Thallium	0.273	MG_KG	U		0.28	1.2	0.078						0.273	0.545	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Vanadium	6.8	MG_KG		17.6	6	580	39	Y					0.341	0.852	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS194-IC-11C	N	Zinc	31.2	MG_KG		28.6	1200	35000	2300	Y	Y				0.341	1.36	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Aluminum	5680	MG_KG		12800		100000	7700	Y					3.19	12.7	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Antimony	0.51	MG_KG	UJ	1.87	0.9	47	3.1						0.319	0.637	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Arsenic	1.12	MG_KG		1.17	5.8	3	0.67	Y					0.191	0.637	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Barium	36.3	MG_KG		36.7	580	22000	1500	Y					0.319	2.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Beryllium	0.212	MG_KG	J	0.195	63	230	16	Y	Y				0.0637	0.319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Cadmium	0.0849	MG_KG	J	0.2	3	98	7	Y					0.0637	0.319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Calcium	892	MG_KG		8470				Y					63.7	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Chromium	4.09	MG_KG		17.4	3.8	6.3	0.3	Y					0.127	0.637	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Cobalt	0.468	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.319	0.797	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Copper	9.25	MG_KG	J	17.1	700	4700	310	Y					0.255	0.637	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Iron	2660	MG_KG		7210	150	82000	5500	Y					1.91	6.37	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Lead	23.7	MG_KG		27.5	270	800	400	Y					0.0956	0.191	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Magnesium	268	MG_KG	J	904				Y					63.7	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Manganese	68	MG_KG	J	37	65	2600	180	Y	Y	Y			0.191	0.956	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Mercury	0.021	MG_KG	J	0.161	1	35	2.3	Y					0.0176	0.0446	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Nickel	1.97	MG_KG		3.11	130	2200	150	Y					0.191	0.637	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Perchlorate	2.61	UG_KG	U			82000	5500						0.784	6.53	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Potassium	193	MG_KG	J	359				Y					63.7	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Selenium	0.319	MG_KG	U	1.59	1.5	580	39						0.191	0.637	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Silver	0.127	MG_KG	U	0.354	3.4	580	39						0.0637	0.637	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Sodium	191	MG_KG	U	250									63.7	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Thallium	0.319	MG_KG	U		0.28	1.2	0.078						0.319	0.51	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Vanadium	6.61	MG_KG		17.6	6	580	39	Y					0.319	0.797	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS195-OC-11C	N	Zinc	32.2	MG_KG		28.6	1200	35000	2300	Y	Y				0.319	1.27	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Aluminum	6540	MG_KG		12800		100000	7700	Y					3.21	12.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Antimony	0.513	MG_KG	UJ	1.87	0.9	47	3.1						0.321	0.641	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Arsenic	1.46	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.192	0.641	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Barium	28.4	MG_KG		36.7	580	22000	1500	Y					0.321	2.57	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Beryllium	0.282	MG_KG	J	0.195	63	230	16	Y	Y				0.0641	0.321	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Cadmium	0.103	MG_KG	J	0.2	3	98	7	Y					0.0641	0.321	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Calcium	515	MG_KG		8470				Y					64.1	321	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Chromium	4.13	MG_KG		17.4	3.8	6.3	0.3	Y					0.128	0.641	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Cobalt	0.523	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.321	0.802	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Copper	7.8	MG_KG	J	17.1	700	4700	310	Y					0.257	0.641	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Iron	2770	MG_KG		7210	150	82000	5500	Y					1.92	6.41	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Lead	22.8	MG_KG		27.5	270	800	400	Y					0.0962	0.192	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Magnesium	240	MG_KG	J	904				Y					64.1	321	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Manganese	46.1	MG_KG	J	37	65	2600	180	Y	Y				0.192	0.962	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Mercury	0.0204	MG_KG	J	0.161	1	35	2.3	Y					0.0146	0.0372	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Nickel	2.18	MG_KG		3.11	130	2200	150	Y					0.192	0.641	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Perchlorate	2.63	UG_KG	U			82000	5500						0.789	6.57	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	PETN	417	UG_KG	U			160000	12000						208	833	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Potassium	181	MG_KG	J	359				Y					64.1	321	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	RDX	167	UG_KG	U			28000	6000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Selenium	0.321	MG_KG	U	1.59	1.5	580	39						0.192	0.641	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Silver	0.128	MG_KG	U	0.354	3.4	580	39						0.0641	0.641	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Sodium	192	MG_KG	U	250									64.1	321	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Thallium	0.385	MG_KG	U		0.28	1.2	0.078						0.385	0.513	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Vanadium	6.65	MG_KG		17.6	6	580	39	Y					0.321	0.802	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS196-IC-11C	N	Zinc	23.1	MG_KG		28.6	1200	35000	2300	Y					0.321	1.28	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	2,6-Dinitrotoluene	114	UG_KG	J			3400	780	Y					87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	2-Nitrotoluene	5970	UG_KG				15000	3200	Y				Y	87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Aluminum	6250	MG_KG		12800		100000	7700	Y					3.19	12.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Antimony	0.511	MG_KG	UJ	1.87	0.9	47	3.1						0.319	0.638	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Arsenic	1.52	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.191	0.638	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Barium	23.9	MG_KG		36.7	580	22000	1500	Y					0.319	2.55	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Beryllium	0.319	MG_KG	J	0.195	63	230	16	Y	Y				0.0638	0.319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Cadmium	0.0927	MG_KG	J	0.2	3	98	7	Y					0.0638	0.319	08/12/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Calcium	660	MG_KG	J	8470				Y					63.8	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Chromium	4.32	MG_KG		17.4	3.8	6.3	0.3	Y					0.128	0.638	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Cobalt	0.537	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.319	0.798	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Copper	36.3	MG_KG	J	17.1	700	4700	310	Y	Y				0.255	0.638	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	HMX	174	UG_KG	U			5700000	380000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Iron	4100	MG_KG		7210	150	82000	5500	Y					1.91	6.38	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Lead	27.5	MG_KG		27.5	270	800	400	Y					0.0957	0.191	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Magnesium	247	MG_KG	J	904				Y					63.8	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Manganese	81.9	MG_KG		37	65	2600	180	Y	Y	Y			0.191	0.957	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Mercury	0.0191	MG_KG	J	0.161	1	35	2.3	Y					0.0173	0.0438	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Nickel	2.26	MG_KG		3.11	130	2200	150	Y					0.191	0.638	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Nitroglycerin	435	UG_KG	U			8200	620						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Perchlorate	2.65	UG_KG	U			82000	5500						0.796	6.64	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	PETN	435	UG_KG	U			160000	12000						217	870	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Potassium	170	MG_KG	J	359				Y					63.8	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	RDX	174	UG_KG	U			28000	6000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Selenium	0.319	MG_KG	U	1.59	1.5	580	39						0.191	0.638	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Silver	0.128	MG_KG	U	0.354	3.4	580	39						0.128	0.638	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Sodium	191	MG_KG	U	250									63.8	319	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Tetryl	174	UG_KG	U			160000	12000						87	348	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Thallium	0.319	MG_KG	U		0.28	1.2	0.078						0.319	0.511	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Vanadium	6.06	MG_KG		17.6	6	580	39	Y					0.319	0.798	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197D-OC-11C	FD	Zinc	43.3	MG_KG		28.6	1200	35000	2300	Y	Y				0.319	1.28	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Aluminum	6190	MG_KG		12800		100000	7700	Y					3.15	12.6	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Antimony	0.503	MG_KG	UJ	1.87	0.9	47	3.1						0.315	0.629	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Arsenic	1.51	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.189	0.629	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Barium	29.1	MG_KG		36.7	580	22000	1500	Y					0.315	2.52	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Beryllium	0.273	MG_KG	J	0.195	63	230	16	Y	Y				0.0629	0.315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Cadmium	0.0819	MG_KG	J	0.2	3	98	7	Y					0.0629	0.315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Calcium	1130	MG_KG	J	8470				Y					62.9	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Chromium	4.02	MG_KG		17.4	3.8	6.3	0.3	Y					0.126	0.629	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Cobalt	0.51	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.315	0.787	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Copper	10.3	MG_KG	J	17.1	700	4700	310	Y					0.252	0.629	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Iron	2800	MG_KG		7210	150	82000	5500	Y					1.89	6.29	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Lead	17.8	MG_KG		27.5	270	800	400	Y					0.0944	0.189	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Magnesium	279	MG_KG	J	904				Y					62.9	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Manganese	94.1	MG_KG		37	65	2600	180	Y	Y	Y			0.189	0.944	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Mercury	0.0215	MG_KG	J	0.161	1	35	2.3	Y					0.0172	0.0436	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Nickel	2.26	MG_KG		3.11	130	2200	150	Y					0.189	0.629	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Nitroglycerin	341	UG_KG	J			8200	620	Y					227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Perchlorate	2.64	UG_KG	U			82000	5500						0.793	6.61	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	PETN	455	UG_KG	U			160000	12000						227	909	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Potassium	186	MG_KG	J	359				Y					62.9	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	RDX	182	UG_KG	UJ			28000	6000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Selenium	0.315	MG_KG	U	1.59	1.5	580	39						0.189	0.629	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Silver	0.126	MG_KG	U	0.354	3.4	580	39						0.0629	0.629	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Sodium	189	MG_KG	U	250									62.9	315	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Thallium	0.252	MG_KG	U		0.28	1.2	0.078						0.252	0.503	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Vanadium	6.32	MG_KG		17.6	6	580	39	Y					0.315	0.787	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS197-OC-11C	N	Zinc	22.9	MG_KG		28.6	1200	35000	2300	Y					0.315	1.26	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	2-Nitrotoluene	785	UG_KG				15000	3200	Y					95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Aluminum	6040	MG_KG		12800		100000	7700	Y					3.44	13.8	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Antimony	0.551	MG_KG	UJ	1.87	0.9	47	3.1						0.344	0.689	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Arsenic	1.43	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.207	0.689	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Barium	24.9	MG_KG		36.7	580	22000	1500	Y					0.344	2.75	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Beryllium	0.279	MG_KG	J	0.195	63	230	16	Y	Y				0.0689	0.344	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Cadmium	0.138	MG_KG	U	0.2	3	98	7						0.0689	0.344	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Calcium	935	MG_KG	J	8470				Y					68.9	344	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Chromium	4.02	MG_KG		17.4	3.8	6.3	0.3	Y					0.138	0.689	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Cobalt	0.51	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.344	0.861	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Copper	9.92	MG_KG		17.1	700	4700	310	Y					0.275	0.689	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Iron	2770	MG_KG		7210	150	82000	5500	Y					2.07	6.89	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Lead	19.3	MG_KG		27.5	270	800	400	Y					0.103	0.207	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Magnesium	263	MG_KG	J	904				Y					68.9	344	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Manganese	75.3	MG_KG		37	65	2600	180	Y	Y	Y			0.207	1.03	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Mercury	0.0216	MG_KG	J	0.161	1	35	2.3	Y					0.0189	0.048	08/12/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Nickel	2.17	MG_KG		3.11	130	2200	150	Y					0.207	0.689	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	08/12/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	08/12/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Perchlorate	2.71	UG_KG	U			82000	5500						0.814	6.78	08/12/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	PETN	476	UG_KG	U			160000	12000						238	952	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Potassium	178	MG_KG	J	359				Y					68.9	344	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	RDX	143	UG_KG	J			28000	6000	Y					95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Selenium	0.344	MG_KG	U	1.59	1.5	580	39						0.207	0.689	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Silver	0.138	MG_KG	U	0.354	3.4	580	39						0.0689	0.689	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Sodium	207	MG_KG	U	250									68.9	344	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	08/12/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Thallium	0.275	MG_KG	U		0.28	1.2	0.078						0.275	0.551	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Vanadium	6.16	MG_KG		17.6	6	580	39	Y					0.344	0.861	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS198-IC-11C	N	Zinc	26.8	MG_KG		28.6	1200	35000	2300	Y					0.344	1.38	08/12/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Aluminum	5130	MG_KG		12800		100000	7700	Y					2.97	11.9	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Antimony	0.476	MG_KG	UJ	1.87	0.9	47	3.1						0.297	0.595	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Arsenic	0.968	MG_KG		1.17	5.8	3	0.67	Y					0.178	0.595	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Barium	9.93	MG_KG		36.7	580	22000	1500	Y					0.297	2.38	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Beryllium	0.158	MG_KG	J	0.195	63	230	16	Y					0.0595	0.297	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Cadmium	0.119	MG_KG	U	0.2	3	98	7						0.0595	0.297	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Calcium	8120	MG_KG		8470				Y					59.5	297	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Chromium	5.84	MG_KG		17.4	3.8	6.3	0.3	Y					0.119	0.595	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Cobalt	0.562	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.297	0.744	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Copper	1.72	MG_KG		17.1	700	4700	310	Y					0.238	0.595	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Iron	2450	MG_KG		7210	150	82000	5500	Y					1.78	5.95	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Lead	6.75	MG_KG		27.5	270	800	400	Y					0.0892	0.178	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Magnesium	252	MG_KG	U	904									59.5	297	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Manganese	17	MG_KG		37	65	2600	180	Y					0.178	0.892	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Mercury	0.0189	MG_KG	J	0.161	1	35	2.3	Y					0.0142	0.0361	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Nickel	2.17	MG_KG		3.11	130	2200	150	Y					0.178	0.595	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Perchlorate	2.33	UG_KG	U			82000	5500						0.7	5.83	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Potassium	212	MG_KG	J	359				Y					59.5	297	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Selenium	0.311	MG_KG	J	1.59	1.5	580	39	Y					0.178	0.595	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Silver	0.119	MG_KG	U	0.354	3.4	580	39						0.0595	0.595	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Sodium	178	MG_KG	U	250									59.5	297	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Thallium	0.238	MG_KG	U		0.28	1.2	0.078						0.178	0.476	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Vanadium	8.62	MG_KG		17.6	6	580	39	Y					0.297	0.744	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS199-OC-11D	N	Zinc	18.8	MG_KG		28.6	1200	35000	2300	Y					0.297	1.19	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Aluminum	4320	MG_KG		12800		100000	7700	Y					2.81	11.2	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Antimony	0.449	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.562	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Arsenic	0.89	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.562	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Barium	8.86	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Beryllium	0.117	MG_KG	J	0.195	63	230	16	Y					0.0562	0.281	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0562	0.281	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Calcium	4400	MG_KG		8470				Y					56.2	281	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Chromium	4.86	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.562	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Cobalt	0.356	MG_KG	J	0.414	0.9	35	2.3	Y					0.281	0.702	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Copper	1.48	MG_KG		17.1	700	4700	310	Y					0.225	0.562	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Iron	2140	MG_KG		7210	150	82000	5500	Y					1.69	5.62	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Lead	6.15	MG_KG		27.5	270	800	400	Y					0.0843	0.169	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Magnesium	169	MG_KG	U	904									56.2	281	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Manganese	10	MG_KG		37	65	2600	180	Y					0.169	0.843	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Mercury	0.0192	MG_KG	J	0.161	1	35	2.3	Y					0.0142	0.0362	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Nickel	1.29	MG_KG		3.11	130	2200	150	Y					0.169	0.562	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Perchlorate	2.34	UG_KG	U			82000	5500						0.701	5.84	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Potassium	167	MG_KG	J	359				Y					56.2	281	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Selenium	0.277	MG_KG	J	1.59	1.5	580	39	Y					0.169	0.562	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0562	0.562	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Sodium	169	MG_KG	U	250									56.2	281	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Thallium	0.225	MG_KG	U		0.28	1.2	0.078						0.169	0.449	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Vanadium	7.19	MG_KG		17.6	6	580	39	Y					0.281	0.702	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS200-IC-11D	N	Zinc	12.9	MG_KG		28.6	1200	35000	2300	Y					0.281	1.12	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Aluminum	7160	MG_KG		12800		100000	7700	Y					2.83	11.3	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Antimony	0.453	MG_KG	UJ	1.87	0.9	47	3.1						0.283	0.566	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Arsenic	1.12	MG_KG		1.17	5.8	3	0.67	Y					0.17	0.566	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Barium	22.3	MG_KG		36.7	580	22000	1500	Y					0.283	2.26	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Beryllium	0.206	MG_KG	J	0.195	63	230	16	Y	Y				0.0566	0.283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0566	0.283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Calcium	289	MG_KG	U	8470									56.6	283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Chromium	6.02	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.566	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Cobalt	0.648	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.283	0.708	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Copper	2.28	MG_KG		17.1	700	4700	310	Y					0.226	0.566	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Iron	3370	MG_KG		7210	150	82000	5500	Y					1.7	5.66	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Lead	6.66	MG_KG		27.5	270	800	400	Y					0.0849	0.17	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Magnesium	236	MG_KG	U	904									56.6	283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Manganese	20.9	MG_KG		37	65	2600	180	Y					0.17	0.849	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Mercury	0.02	MG_KG	J	0.161	1	35	2.3	Y					0.0137	0.0348	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Nickel	2.2	MG_KG		3.11	130	2200	150	Y					0.17	0.566	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Perchlorate	2.32	UG_KG	U			82000	5500						0.696	5.8	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Potassium	189	MG_KG	J	359				Y					56.6	283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Selenium	0.229	MG_KG	J	1.59	1.5	580	39	Y					0.17	0.566	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.566	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Sodium	170	MG_KG	U	250									56.6	283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.226	0.453	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Vanadium	8.46	MG_KG		17.6	6	580	39	Y					0.283	0.708	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201D-OC-11D	FD	Zinc	34.8	MG_KG		28.6	1200	35000	2300	Y	Y				0.283	1.13	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Aluminum	6830	MG_KG		12800		100000	7700	Y					2.93	11.7	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Antimony	0.47	MG_KG	UJ	1.87	0.9	47	3.1						0.293	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Arsenic	1.11	MG_KG		1.17	5.8	3	0.67	Y					0.176	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Barium	22.2	MG_KG		36.7	580	22000	1500	Y					0.293	2.35	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Beryllium	0.202	MG_KG	J	0.195	63	230	16	Y	Y				0.0587	0.293	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0587	0.293	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Calcium	315	MG_KG	U	8470									58.7	293	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Chromium	5.66	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Cobalt	0.626	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.293	0.734	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Copper	2.42	MG_KG		17.1	700	4700	310	Y					0.235	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Iron	3250	MG_KG		7210	150	82000	5500	Y					1.76	5.87	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Lead	7.01	MG_KG		27.5	270	800	400	Y					0.088	0.176	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Magnesium	224	MG_KG	U	904									58.7	293	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Manganese	21	MG_KG		37	65	2600	180	Y					0.176	0.88	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Mercury	0.0199	MG_KG	J	0.161	1	35	2.3	Y					0.0137	0.0347	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Nickel	2.13	MG_KG		3.11	130	2200	150	Y					0.176	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Perchlorate	2.31	UG_KG	U			82000	5500						0.694	5.78	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	PETN	417	UG_KG	U			160000	12000						208	833	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Potassium	167	MG_KG	J	359				Y					58.7	293	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	RDX	167	UG_KG	U			28000	6000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Selenium	0.293	MG_KG	U	1.59	1.5	580	39						0.176	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0587	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Sodium	176	MG_KG	U	250									58.7	293	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Thallium	0.293	MG_KG	U		0.28	1.2	0.078						0.293	0.47	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Vanadium	7.96	MG_KG		17.6	6	580	39	Y					0.293	0.734	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS201-OC-11D	N	Zinc	38.6	MG_KG		28.6	1200	35000	2300	Y	Y				0.293	1.17	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Aluminum	6640	MG_KG		12800		100000	7700	Y					2.82	11.3	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Antimony	0.452	MG_KG	UJ	1.87	0.9	47	3.1						0.282	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Arsenic	1.1	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Barium	21.8	MG_KG		36.7	580	22000	1500	Y					0.282	2.26	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Beryllium	0.202	MG_KG	J	0.195	63	230	16	Y	Y				0.0565	0.282	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0565	0.282	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Calcium	312	MG_KG	U	8470									56.5	282	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Chromium	5.39	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Cobalt	0.637	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.282	0.706	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Copper	2.31	MG_KG		17.1	700	4700	310	Y					0.226	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Iron	3210	MG_KG		7210	150	82000	5500	Y					1.69	5.65	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Lead	7.42	MG_KG		27.5	270	800	400	Y					0.0847	0.169	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Magnesium	220	MG_KG	U	904									56.5	282	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Manganese	32.7	MG_KG		37	65	2600	180	Y					0.169	0.847	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Mercury	0.0182	MG_KG	J	0.161	1	35	2.3	Y					0.0117	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Nickel	2.06	MG_KG		3.11	130	2200	150	Y					0.169	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.685	5.71	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Potassium	169	MG_KG	U	359									56.5	282	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Selenium	0.282	MG_KG	U	1.59	1.5	580	39						0.169	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0565	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Sodium	169	MG_KG	U	250									56.5	282	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.226	0.452	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Vanadium	7.75	MG_KG		17.6	6	580	39	Y					0.282	0.706	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS202-IC-11D	N	Zinc	50.6	MG_KG		28.6	1200	35000	2300	Y	Y				0.282	1.13	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Aluminum	4610	MG_KG		12800		100000	7700	Y					2.86	11.4	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Antimony	0.457	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.571	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Arsenic	0.834	MG_KG		1.17	5.8	3	0.67	Y					0.171	0.571	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Barium	9.42	MG_KG		36.7	580	22000	1500	Y					0.286	2.28	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Beryllium	0.127	MG_KG	J	0.195	63	230	16	Y					0.0571	0.286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.0571	0.286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Calcium	16100	MG_KG		8470				Y	Y				57.1	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Chromium	4.82	MG_KG		17.4	3.8	6.3	0.3	Y					0.114	0.571	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Cobalt	0.462	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.286	0.714	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Copper	1.69	MG_KG		17.1	700	4700	310	Y					0.228	0.571	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	HMX	160	UG_KG	U			5700000	380000						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Iron	2200	MG_KG		7210	150	82000	5500	Y					1.71	5.71	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Lead	6.27	MG_KG		27.5	270	800	400	Y					0.0857	0.171	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Magnesium	322	MG_KG	U	904									57.1	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Manganese	22.2	MG_KG		37	65	2600	180	Y					0.171	0.857	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Mercury	0.019	MG_KG	J	0.161	1	35	2.3	Y					0.0143	0.0363	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Nickel	1.63	MG_KG		3.11	130	2200	150	Y					0.171	0.571	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Perchlorate	2.27	UG_KG	U			82000	5500						0.682	5.68	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	PETN	400	UG_KG	U			160000	12000						200	800	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Potassium	183	MG_KG	J	359				Y					57.1	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	RDX	160	UG_KG	U			28000	6000						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Selenium	0.19	MG_KG	J	1.59	1.5	580	39	Y					0.171	0.571	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.0571	0.571	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Sodium	171	MG_KG	U	250									57.1	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Tetryl	160	UG_KG	U			160000	12000						80	320	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.171	0.457	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Vanadium	7.56	MG_KG		17.6	6	580	39	Y					0.286	0.714	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS203-OC-11D	N	Zinc	13.5	MG_KG		28.6	1200	35000	2300	Y					0.286	1.14	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Aluminum	4850	MG_KG		12800		100000	7700	Y					2.79	11.2	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Antimony	0.446	MG_KG	UJ	1.87	0.9	47	3.1						0.279	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Arsenic	1.03	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Barium	10.2	MG_KG		36.7	580	22000	1500	Y					0.279	2.23	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Beryllium	0.133	MG_KG	J	0.195	63	230	16	Y					0.0558	0.279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0558	0.279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Calcium	7470	MG_KG		8470				Y					55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Chromium	5.22	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Cobalt	0.539	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.279	0.697	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Copper	2	MG_KG		17.1	700	4700	310	Y					0.223	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Iron	2230	MG_KG		7210	150	82000	5500	Y					1.67	5.58	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Lead	7	MG_KG		27.5	270	800	400	Y					0.0837	0.167	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Magnesium	232	MG_KG	U	904									55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Manganese	14.4	MG_KG		37	65	2600	180	Y					0.167	0.837	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Mercury	0.0205	MG_KG	J	0.161	1	35	2.3	Y					0.0139	0.0354	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Nickel	1.69	MG_KG		3.11	130	2200	150	Y					0.167	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.686	5.72	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Potassium	193	MG_KG	J	359				Y					55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Selenium	0.25	MG_KG	J	1.59	1.5	580	39	Y					0.167	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0558	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Sodium	167	MG_KG	U	250									55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Thallium	0.223	MG_KG	U		0.28	1.2	0.078						0.223	0.446	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Vanadium	7.89	MG_KG		17.6	6	580	39	Y					0.279	0.697	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS204-IC-11D	N	Zinc	18.3	MG_KG		28.6	1200	35000	2300	Y					0.279	1.12	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Aluminum	3960	MG_KG		12800		100000	7700	Y					2.77	11.1	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Antimony	0.442	MG_KG	UJ	1.87	0.9	47	3.1						0.277	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Arsenic	0.885	MG_KG		1.17	5.8	3	0.67	Y					0.166	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Barium	10.7	MG_KG		36.7	580	22000	1500	Y					0.277	2.21	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Beryllium	0.129	MG_KG	J	0.195	63	230	16	Y					0.0553	0.277	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0553	0.277	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Calcium	9430	MG_KG		8470				Y	Y				55.3	277	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Chromium	3.59	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Cobalt	0.393	MG_KG	J	0.414	0.9	35	2.3	Y					0.277	0.691	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Copper	1.61	MG_KG		17.1	700	4700	310	Y					0.221	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Iron	1580	MG_KG		7210	150	82000	5500	Y					1.66	5.53	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Lead	5.5	MG_KG		27.5	270	800	400	Y					0.083	0.166	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Magnesium	255	MG_KG	U	904									55.3	277	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Manganese	16.2	MG_KG		37	65	2600	180	Y					0.166	0.83	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Mercury	0.0179	MG_KG	J	0.161	1	35	2.3	Y					0.0141	0.0357	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Nickel	1.56	MG_KG		3.11	130	2200	150	Y					0.166	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Perchlorate	2.23	UG_KG	U			82000	5500						0.67	5.59	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Potassium	166	MG_KG	U	359									55.3	277	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Selenium	0.277	MG_KG	U	1.59	1.5	580	39						0.166	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0553	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Sodium	166	MG_KG	U	250									55.3	277	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Thallium	0.277	MG_KG	U		0.28	1.2	0.078						0.277	0.442	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Vanadium	5.62	MG_KG		17.6	6	580	39	Y					0.277	0.691	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS205-OC-11D	N	Zinc	12.8	MG_KG		28.6	1200	35000	2300	Y					0.277	1.11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Aluminum	4280	MG_KG		12800		100000	7700	Y					2.86	11.5	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Antimony	0.458	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.573	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Arsenic	0.897	MG_KG		1.17	5.8	3	0.67	Y					0.172	0.573	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Barium	9.89	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Beryllium	0.119	MG_KG	J	0.195	63	230	16	Y					0.0573	0.286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0573	0.286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Calcium	8090	MG_KG		8470				Y					57.3	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Chromium	4.12	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.573	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Cobalt	0.42	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.286	0.716	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Copper	1.67	MG_KG		17.1	700	4700	310	Y					0.229	0.573	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Iron	1750	MG_KG		7210	150	82000	5500	Y					1.72	5.73	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Lead	6.04	MG_KG		27.5	270	800	400	Y					0.0859	0.172	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Magnesium	203	MG_KG	U	904									57.3	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Manganese	16.3	MG_KG		37	65	2600	180	Y					0.172	0.859	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Mercury	0.0175	MG_KG	J	0.161	1	35	2.3	Y					0.0122	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Nickel	1.56	MG_KG		3.11	130	2200	150	Y					0.172	0.573	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Perchlorate	2.25	UG_KG	U			82000	5500						0.674	5.61	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Potassium	172	MG_KG	U	359									57.3	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Selenium	0.18	MG_KG	J	1.59	1.5	580	39	Y					0.172	0.573	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.0573	0.573	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Sodium	172	MG_KG	U	250									57.3	286	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.229	0.458	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Vanadium	6.19	MG_KG		17.6	6	580	39	Y					0.286	0.716	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS206-IC-11D	N	Zinc	13.1	MG_KG		28.6	1200	35000	2300	Y					0.286	1.15	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Aluminum	7050	MG_KG		12800		100000	7700	Y					2.78	11.1	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Antimony	0.445	MG_KG	UJ	1.87	0.9	47	3.1						0.278	0.557	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Arsenic	1.16	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.557	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Barium	22.2	MG_KG		36.7	580	22000	1500	Y					0.278	2.23	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Beryllium	0.2	MG_KG	J	0.195	63	230	16	Y	Y				0.0557	0.278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0557	0.278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Calcium	279	MG_KG	U	8470									55.7	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Chromium	5.86	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.557	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Cobalt	0.62	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.278	0.696	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Copper	2.54	MG_KG		17.1	700	4700	310	Y					0.223	0.557	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Iron	3430	MG_KG		7210	150	82000	5500	Y					1.67	5.57	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Lead	9.55	MG_KG		27.5	270	800	400	Y					0.0835	0.167	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Magnesium	227	MG_KG	U	904									55.7	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Manganese	19.3	MG_KG		37	65	2600	180	Y					0.167	0.835	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Mercury	0.0197	MG_KG	J	0.161	1	35	2.3	Y					0.0136	0.0344	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Nickel	2.18	MG_KG		3.11	130	2200	150	Y					0.167	0.557	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.688	5.74	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Potassium	164	MG_KG	J	359				Y					55.7	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Selenium	0.278	MG_KG	U	1.59	1.5	580	39						0.167	0.557	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.111	0.557	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Sodium	167	MG_KG	U	250									55.7	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Thallium	0.278	MG_KG	U		0.28	1.2	0.078						0.278	0.445	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Vanadium	8.27	MG_KG		17.6	6	580	39	Y					0.278	0.696	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS207-OC-11D	N	Zinc	31.3	MG_KG		28.6	1200	35000	2300	Y	Y				0.278	1.11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Aluminum	7040	MG_KG		12800		100000	7700	Y					2.91	11.6	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Antimony	0.466	MG_KG	UJ	1.87	0.9	47	3.1						0.291	0.582	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Arsenic	1.09	MG_KG		1.17	5.8	3	0.67	Y					0.175	0.582	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Barium	21.7	MG_KG		36.7	580	22000	1500	Y					0.291	2.33	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Beryllium	0.199	MG_KG	J	0.195	63	230	16	Y	Y				0.0582	0.291	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Cadmium	0.116	MG_KG	U	0.2	3	98	7						0.0582	0.291	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Calcium	303	MG_KG	U	8470									58.2	291	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Chromium	5.85	MG_KG		17.4	3.8	6.3	0.3	Y					0.116	0.582	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Cobalt	0.625	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.291	0.728	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Copper	4.05	MG_KG		17.1	700	4700	310	Y					0.233	0.582	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Iron	3440	MG_KG		7210	150	82000	5500	Y					1.75	5.82	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Lead	8.3	MG_KG		27.5	270	800	400	Y					0.0873	0.175	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Magnesium	229	MG_KG	U	904									58.2	291	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Manganese	22.5	MG_KG		37	65	2600	180	Y					0.175	0.873	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Mercury	0.0196	MG_KG	J	0.161	1	35	2.3	Y					0.0112	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Nickel	2.15	MG_KG		3.11	130	2200	150	Y					0.175	0.582	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.688	5.73	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Potassium	171	MG_KG	J	359				Y					58.2	291	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Selenium	0.192	MG_KG	J	1.59	1.5	580	39	Y					0.175	0.582	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.0582	0.582	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Sodium	175	MG_KG	U	250									58.2	291	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Thallium	0.233	MG_KG	U		0.28	1.2	0.078						0.233	0.466	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Vanadium	8.3	MG_KG		17.6	6	580	39	Y					0.291	0.728	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS208-IC-11D	N	Zinc	48.1	MG_KG		28.6	1200	35000	2300	Y	Y				0.291	1.16	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Aluminum	7230	MG_KG		12800		100000	7700	Y					2.96	11.8	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Antimony	0.473	MG_KG	UJ	1.87	0.9	47	3.1						0.296	0.591	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Arsenic	1.16	MG_KG		1.17	5.8	3	0.67	Y					0.177	0.591	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Barium	21.7	MG_KG		36.7	580	22000	1500	Y					0.296	2.36	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Beryllium	0.21	MG_KG	J	0.195	63	230	16	Y	Y				0.0591	0.296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Cadmium	0.118	MG_KG	U	0.2	3	98	7						0.0591	0.296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Calcium	235	MG_KG	U	8470									59.1	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Chromium	6.07	MG_KG		17.4	3.8	6.3	0.3	Y					0.118	0.591	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Cobalt	0.627	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.296	0.739	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Copper	2.54	MG_KG		17.1	700	4700	310	Y					0.236	0.591	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Iron	3570	MG_KG		7210	150	82000	5500	Y					1.77	5.91	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Lead	9.56	MG_KG		27.5	270	800	400	Y					0.0887	0.177	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Magnesium	238	MG_KG	U	904									59.1	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Manganese	18.5	MG_KG		37	65	2600	180	Y					0.177	0.887	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Mercury	0.0208	MG_KG	J	0.161	1	35	2.3	Y					0.0155	0.0393	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Nickel	2.23	MG_KG		3.11	130	2200	150	Y					0.177	0.591	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Perchlorate	2.31	UG_KG	U			82000	5500						0.692	5.76	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Potassium	167	MG_KG	J	359				Y					59.1	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Selenium	0.193	MG_KG	J	1.59	1.5	580	39	Y					0.177	0.591	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Silver	0.118	MG_KG	U	0.354	3.4	580	39						0.118	0.591	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Sodium	177	MG_KG	U	250									59.1	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Thallium	0.236	MG_KG	U		0.28	1.2	0.078						0.236	0.473	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Vanadium	8.65	MG_KG		17.6	6	580	39	Y					0.296	0.739	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS209-OC-11D	N	Zinc	26.5	MG_KG		28.6	1200	35000	2300	Y					0.296	1.18	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Aluminum	8380	MG_KG		12800		100000	7700	Y					2.79	11.2	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Antimony	0.447	MG_KG	UJ	1.87	0.9	47	3.1						0.279	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Arsenic	1.29	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.168	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Barium	24.3	MG_KG		36.7	580	22000	1500	Y					0.279	2.23	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Beryllium	0.222	MG_KG	J	0.195	63	230	16	Y	Y				0.0558	0.279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0558	0.279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Calcium	284	MG_KG	U	8470									55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Chromium	6.91	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Cobalt	0.714	MG_KG		0.414	0.9	35	2.3	Y	Y				0.279	0.698	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Copper	2.54	MG_KG		17.1	700	4700	310	Y					0.223	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Iron	4360	MG_KG		7210	150	82000	5500	Y					1.68	5.58	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Lead	8.3	MG_KG		27.5	270	800	400	Y					0.0838	0.168	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Magnesium	267	MG_KG	U	904									55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Manganese	21.1	MG_KG		37	65	2600	180	Y					0.168	0.838	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Mercury	0.0216	MG_KG	J	0.161	1	35	2.3	Y					0.0135	0.0343	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Nickel	2.53	MG_KG		3.11	130	2200	150	Y					0.168	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.687	5.72	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Potassium	183	MG_KG	J	359				Y					55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Selenium	0.279	MG_KG	U	1.59	1.5	580	39						0.168	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.112	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Sodium	168	MG_KG	U	250									55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Thallium	0.223	MG_KG	U		0.28	1.2	0.078						0.223	0.447	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Vanadium	10.1	MG_KG		17.6	6	580	39	Y					0.279	0.698	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS210-IC-11D	N	Zinc	35.8	MG_KG		28.6	1200	35000	2300	Y	Y				0.279	1.12	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Aluminum	7190	MG_KG		12800		100000	7700	Y					2.75	11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Antimony	0.44	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.55	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Arsenic	1.17	MG_KG		1.17	5.8	3	0.67	Y					0.165	0.55	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Barium	22.6	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Beryllium	0.207	MG_KG	J	0.195	63	230	16	Y	Y				0.055	0.275	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.055	0.275	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Calcium	298	MG_KG	U	8470									55	275	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Chromium	5.84	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.55	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Cobalt	0.664	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.275	0.688	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Copper	2.24	MG_KG		17.1	700	4700	310	Y					0.22	0.55	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Iron	3430	MG_KG		7210	150	82000	5500	Y					1.65	5.5	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Lead	7.24	MG_KG		27.5	270	800	400	Y					0.0825	0.165	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Magnesium	227	MG_KG	U	904									55	275	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Manganese	25.3	MG_KG		37	65	2600	180	Y					0.165	0.825	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Mercury	0.0176	MG_KG	J	0.161	1	35	2.3	Y					0.0153	0.0389	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Nickel	2.24	MG_KG		3.11	130	2200	150	Y					0.165	0.55	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.683	5.69	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	PETN	455	UG_KG	U			160000	12000						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Potassium	189	MG_KG	J	359				Y					55	275	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	RDX	182	UG_KG	U			28000	6000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.55	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.55	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Sodium	165	MG_KG	U	250									55	275	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.22	0.44	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Vanadium	8.21	MG_KG		17.6	6	580	39	Y					0.275	0.688	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS211-OC-11D	N	Zinc	85.2	MG_KG		28.6	1200	35000	2300	Y	Y				0.275	1.1	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Aluminum	8100	MG_KG		12800		100000	7700	Y					2.76	11.1	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Antimony	0.442	MG_KG	UJ	1.87	0.9	47	3.1						0.276	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.166	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Barium	23.6	MG_KG		36.7	580	22000	1500	Y					0.276	2.21	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Beryllium	0.218	MG_KG	J	0.195	63	230	16	Y	Y				0.0553	0.276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0553	0.276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Calcium	296	MG_KG	U	8470									55.3	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Chromium	6.68	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Cobalt	0.714	MG_KG		0.414	0.9	35	2.3	Y	Y				0.276	0.691	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Copper	2.36	MG_KG		17.1	700	4700	310	Y					0.221	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Iron	3820	MG_KG		7210	150	82000	5500	Y					1.66	5.53	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Lead	7.64	MG_KG		27.5	270	800	400	Y					0.0829	0.166	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Magnesium	266	MG_KG	U	904									55.3	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Manganese	22.1	MG_KG		37	65	2600	180	Y					0.166	0.829	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Mercury	0.0227	MG_KG	J	0.161	1	35	2.3	Y					0.0155	0.0393	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Nickel	2.47	MG_KG		3.11	130	2200	150	Y					0.166	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Perchlorate	2.3	UG_KG	U			82000	5500						0.69	5.75	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	PETN	455	UG_KG	U			160000	12000						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Potassium	192	MG_KG	J	359				Y					55.3	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	RDX	182	UG_KG	U			28000	6000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Selenium	0.276	MG_KG	U	1.59	1.5	580	39						0.166	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.111	0.553	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Sodium	166	MG_KG	U	250									55.3	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Thallium	0.276	MG_KG	U		0.28	1.2	0.078						0.276	0.442	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Vanadium	9.46	MG_KG		17.6	6	580	39	Y					0.276	0.691	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212D-IC-11D	FD	Zinc	42.9	MG_KG		28.6	1200	35000	2300	Y	Y				0.276	1.11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Aluminum	8020	MG_KG		12800		100000	7700	Y					2.74	11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Antimony	0.439	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.549	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Arsenic	1.29	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.549	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Barium	23.3	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Beryllium	0.219	MG_KG	J	0.195	63	230	16	Y	Y				0.0549	0.274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0549	0.274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Calcium	399	MG_KG	U	8470									54.9	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Chromium	6.61	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.549	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Cobalt	0.715	MG_KG		0.414	0.9	35	2.3	Y	Y				0.274	0.686	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Copper	2.33	MG_KG		17.1	700	4700	310	Y					0.219	0.549	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Iron	3870	MG_KG		7210	150	82000	5500	Y					1.65	5.49	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Lead	7.56	MG_KG		27.5	270	800	400	Y					0.0823	0.165	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Magnesium	270	MG_KG	U	904									54.9	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Manganese	24.9	MG_KG		37	65	2600	180	Y					0.165	0.823	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Mercury	0.0201	MG_KG	J	0.161	1	35	2.3	Y					0.0145	0.0368	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Nickel	2.5	MG_KG		3.11	130	2200	150	Y					0.165	0.549	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Perchlorate	2.3	UG_KG	U			82000	5500						0.691	5.76	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Potassium	206	MG_KG	J	359				Y					54.9	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Selenium	0.274	MG_KG	U	1.59	1.5	580	39						0.165	0.549	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.549	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Sodium	165	MG_KG	U	250									54.9	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Thallium	0.219	MG_KG	U		0.28	1.2	0.078						0.219	0.439	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Vanadium	9.48	MG_KG		17.6	6	580	39	Y					0.274	0.686	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS212-IC-11D	N	Zinc	38.5	MG_KG		28.6	1200	35000	2300	Y	Y				0.274	1.1	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Aluminum	7800	MG_KG		12800		100000	7700	Y					2.88	11.5	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Antimony	0.461	MG_KG	UJ	1.87	0.9	47	3.1						0.288	0.577	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Arsenic	1.27	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.577	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Barium	23.5	MG_KG		36.7	580	22000	1500	Y					0.288	2.31	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Beryllium	0.215	MG_KG	J	0.195	63	230	16	Y	Y				0.0577	0.288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0577	0.288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Calcium	332	MG_KG	U	8470									57.7	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Chromium	6.48	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.577	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Cobalt	0.645	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.288	0.721	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Copper	2.63	MG_KG		17.1	700	4700	310	Y					0.231	0.577	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Iron	3900	MG_KG		7210	150	82000	5500	Y					1.73	5.77	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Lead	8.11	MG_KG		27.5	270	800	400	Y					0.0865	0.173	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Magnesium	256	MG_KG	U	904									57.7	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Manganese	21.9	MG_KG		37	65	2600	180	Y					0.173	0.865	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Mercury	0.0197	MG_KG	J	0.161	1	35	2.3	Y					0.014	0.0355	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Nickel	2.38	MG_KG		3.11	130	2200	150	Y					0.173	0.577	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.688	5.74	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Potassium	172	MG_KG	J	359				Y					57.7	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Selenium	0.288	MG_KG	U	1.59	1.5	580	39						0.173	0.577	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.577	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Sodium	173	MG_KG	U	250									57.7	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Thallium	0.231	MG_KG	U		0.28	1.2	0.078						0.231	0.461	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Vanadium	9.16	MG_KG		17.6	6	580	39	Y					0.288	0.721	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS213-OC-11D	N	Zinc	52.2	MG_KG		28.6	1200	35000	2300	Y	Y				0.288	1.15	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Aluminum	8010	MG_KG		12800		100000	7700	Y					2.71	10.9	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Antimony	0.434	MG_KG	UJ	1.87	0.9	47	3.1						0.271	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Arsenic	1.16	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Barium	23	MG_KG		36.7	580	22000	1500	Y					0.271	2.17	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Beryllium	0.216	MG_KG	J	0.195	63	230	16	Y	Y				0.0543	0.271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0543	0.271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Calcium	290	MG_KG	U	8470									54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Chromium	6.61	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Cobalt	0.685	MG_KG		0.414	0.9	35	2.3	Y	Y				0.271	0.679	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Copper	2.44	MG_KG		17.1	700	4700	310	Y					0.217	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Iron	3890	MG_KG		7210	150	82000	5500	Y					1.63	5.43	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Lead	7.67	MG_KG		27.5	270	800	400	Y					0.0814	0.163	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Magnesium	266	MG_KG	U	904									54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Manganese	22.7	MG_KG		37	65	2600	180	Y					0.163	0.814	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Mercury	0.0191	MG_KG	J	0.161	1	35	2.3	Y					0.0148	0.0376	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Nickel	2.45	MG_KG		3.11	130	2200	150	Y					0.163	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.684	5.7	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Potassium	198	MG_KG	J	359				Y					54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Selenium	0.271	MG_KG	U	1.59	1.5	580	39						0.163	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.109	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Sodium	163	MG_KG	U	250									54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Thallium	0.217	MG_KG	U		0.28	1.2	0.078						0.217	0.434	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Vanadium	9.49	MG_KG		17.6	6	580	39	Y					0.271	0.679	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS214-IC-11D	N	Zinc	44.4	MG_KG		28.6	1200	35000	2300	Y	Y				0.271	1.09	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Aluminum	4600	MG_KG		12800		100000	7700	Y					5.65	22.6	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Antimony	0.452	MG_KG	UJ	1.87	0.9	47	3.1						0.283	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Arsenic	1.38	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.17	0.565	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Barium	12.9	MG_KG		36.7	580	22000	1500	Y					0.283	2.26	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Beryllium	0.208	MG_KG	J	0.195	63	230	16	Y	Y				0.0565	0.283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Cadmium	0.126	MG_KG	J	0.2	3	98	7	Y					0.0565	0.283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Calcium	41100	MG_KG		8470				Y	Y				113	565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Chromium	7.15	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Cobalt	0.844	MG_KG		0.414	0.9	35	2.3	Y	Y				0.283	0.706	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Copper	5.11	MG_KG		17.1	700	4700	310	Y					0.226	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Iron	2840	MG_KG		7210	150	82000	5500	Y					1.7	5.65	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Lead	5.25	MG_KG		27.5	270	800	400	Y					0.17	0.339	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Magnesium	825	MG_KG	J	904				Y					56.5	283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Manganese	57.5	MG_KG		37	65	2600	180	Y	Y				0.17	0.848	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Mercury	0.0336	MG_KG	U	0.161	1	35	2.3						0.0132	0.0336	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Nickel	3.15	MG_KG		3.11	130	2200	150	Y	Y				0.17	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Perchlorate	2.31	UG_KG	U			82000	5500						0.692	5.76	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Potassium	305	MG_KG	J	359				Y					56.5	283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Selenium	0.283	MG_KG	U	1.59	1.5	580	39						0.17	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.565	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Sodium	170	MG_KG	U	250									56.5	283	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.17	0.452	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Vanadium	12.3	MG_KG		17.6	6	580	39	Y					0.283	0.706	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS215-OC-11D	N	Zinc	43.1	MG_KG		28.6	1200	35000	2300	Y	Y				0.565	2.26	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	1,3,5-Trinitrobenzene	579	UG_KG	J			3200000	220000	Y					87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Aluminum	4750	MG_KG		12800		100000	7700	Y					15.6	62.6	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Antimony	0.501	MG_KG	UJ	1.87	0.9	47	3.1						0.313	0.626	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Arsenic	1.92	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.188	0.626	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Barium	16.9	MG_KG		36.7	580	22000	1500	Y					0.313	2.5	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Beryllium	0.259	MG_KG	J	0.195	63	230	16	Y	Y				0.0626	0.313	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Cadmium	0.25	MG_KG	J	0.2	3	98	7	Y	Y				0.0626	0.313	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Calcium	115000	MG_KG		8470				Y	Y				313	1560	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Chromium	9.83	MG_KG		17.4	3.8	6.3	0.3	Y					0.125	0.626	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Cobalt	0.872	MG_KG		0.414	0.9	35	2.3	Y	Y				0.313	0.782	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Copper	6	MG_KG		17.1	700	4700	310	Y					0.25	0.626	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Iron	3170	MG_KG		7210	150	82000	5500	Y					1.88	6.26	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Lead	6.8	MG_KG		27.5	270	800	400	Y					0.469	0.939	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Magnesium	1820	MG_KG	J	904				Y	Y				62.6	313	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Manganese	85.5	MG_KG		37	65	2600	180	Y	Y	Y			0.188	0.939	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Mercury	0.0133	MG_KG	J	0.161	1	35	2.3	Y					0.0125	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Nickel	3.41	MG_KG		3.11	130	2200	150	Y	Y				0.188	0.626	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Perchlorate	2.57	UG_KG	U			82000	5500						0.77	6.42	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Potassium	387	MG_KG	J	359				Y	Y				62.6	313	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Selenium	0.313	MG_KG	U	1.59	1.5	580	39						0.188	0.626	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Silver	0.188	MG_KG	U	0.354	3.4	580	39						0.188	0.626	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Sodium	188	MG_KG	U	250									62.6	313	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Thallium	0.25	MG_KG	U		0.28	1.2	0.078						0.188	0.501	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Vanadium	14.4	MG_KG		17.6	6	580	39	Y					0.313	0.782	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS216-IC-11D	N	Zinc	45.3	MG_KG		28.6	1200	35000	2300	Y	Y				1.56	6.26	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Aluminum	6990	MG_KG		12800		100000	7700	Y					2.96	11.8	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Antimony	0.474	MG_KG	UJ	1.87	0.9	47	3.1						0.296	0.592	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Arsenic	1.13	MG_KG		1.17	5.8	3	0.67	Y					0.178	0.592	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Barium	21.6	MG_KG		36.7	580	22000	1500	Y					0.296	2.37	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Beryllium	0.207	MG_KG	J	0.195	63	230	16	Y	Y				0.0592	0.296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Cadmium	0.118	MG_KG	U	0.2	3	98	7						0.0592	0.296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Calcium	408	MG_KG	U	8470									59.2	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Chromium	5.67	MG_KG		17.4	3.8	6.3	0.3	Y					0.118	0.592	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Cobalt	0.649	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.296	0.74	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Copper	2.73	MG_KG		17.1	700	4700	310	Y					0.237	0.592	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Iron	3320	MG_KG		7210	150	82000	5500	Y					1.78	5.92	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Lead	6.76	MG_KG		27.5	270	800	400	Y					0.0888	0.178	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Magnesium	234	MG_KG	UJ	904									59.2	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Manganese	25	MG_KG		37	65	2600	180	Y					0.178	0.888	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Mercury	0.0195	MG_KG	J	0.161	1	35	2.3	Y					0.0145	0.0369	10/13/11	METAL	7471A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Nickel	2.27	MG_KG		3.11	130	2200	150	Y					0.178	0.592	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Perchlorate	2.31	UG_KG	U			82000	5500						0.693	5.77	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	PETN	455	UG_KG	U			160000	12000						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Potassium	164	MG_KG	J	359				Y					59.2	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	RDX	182	UG_KG	U			28000	6000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Selenium	0.209	MG_KG	J	1.59	1.5	580	39	Y					0.178	0.592	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Silver	0.118	MG_KG	U	0.354	3.4	580	39						0.118	0.592	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Sodium	178	MG_KG	U	250									59.2	296	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Thallium	0.296	MG_KG	U		0.28	1.2	0.078						0.296	0.474	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Vanadium	8.08	MG_KG		17.6	6	580	39	Y					0.296	0.74	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS217-OC-11D	N	Zinc	83.8	MG_KG		28.6	1200	35000	2300	Y	Y				0.296	1.18	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Aluminum	7980	MG_KG		12800		100000	7700	Y					2.94	11.7	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Antimony	0.47	MG_KG	UJ	1.87	0.9	47	3.1						0.294	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Arsenic	1.12	MG_KG		1.17	5.8	3	0.67	Y					0.176	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Barium	22.4	MG_KG		36.7	580	22000	1500	Y					0.294	2.35	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Beryllium	0.21	MG_KG	J	0.195	63	230	16	Y	Y				0.0587	0.294	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0587	0.294	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Calcium	302	MG_KG	U	8470									58.7	294	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Chromium	6.59	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Cobalt	0.689	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.294	0.734	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Copper	2.73	MG_KG		17.1	700	4700	310	Y					0.235	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Iron	3680	MG_KG		7210	150	82000	5500	Y					1.76	5.87	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Lead	7.59	MG_KG		27.5	270	800	400	Y					0.0881	0.176	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Magnesium	260	MG_KG	UJ	904									58.7	294	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Manganese	19.8	MG_KG		37	65	2600	180	Y					0.176	0.881	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Mercury	0.0216	MG_KG	J	0.161	1	35	2.3	Y					0.0149	0.0378	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Nickel	2.39	MG_KG		3.11	130	2200	150	Y					0.176	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.687	5.73	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Potassium	188	MG_KG	J	359				Y					58.7	294	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Selenium	0.294	MG_KG	U	1.59	1.5	580	39						0.176	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.117	0.587	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Sodium	176	MG_KG	U	250									58.7	294	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Thallium	0.235	MG_KG	U		0.28	1.2	0.078						0.176	0.47	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Vanadium	9.23	MG_KG		17.6	6	580	39	Y					0.294	0.734	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS218-IC-11D	N	Zinc	43.6	MG_KG		28.6	1200	35000	2300	Y	Y				0.294	1.17	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Aluminum	4460	MG_KG		12800		100000	7700	Y					2.87	11.5	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Antimony	0.459	MG_KG	UJ	1.87	0.9	47	3.1						0.287	0.574	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.172	0.574	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Barium	14	MG_KG		36.7	580	22000	1500	Y					0.287	2.3	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Beryllium	0.196	MG_KG	J	0.195	63	230	16	Y	Y				0.0574	0.287	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Cadmium	0.0605	MG_KG	J	0.2	3	98	7	Y					0.0574	0.287	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Calcium	11300	MG_KG		8470				Y	Y				57.4	287	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Chromium	4.25	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.574	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Cobalt	0.503	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.287	0.717	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Copper	1.99	MG_KG		17.1	700	4700	310	Y					0.23	0.574	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Iron	2410	MG_KG		7210	150	82000	5500	Y					1.72	5.74	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Lead	5.74	MG_KG		27.5	270	800	400	Y					0.0861	0.172	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Magnesium	366	MG_KG	UJ	904									57.4	287	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Manganese	32	MG_KG		37	65	2600	180	Y					0.172	0.861	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Mercury	0.0394	MG_KG	U	0.161	1	35	2.3						0.0155	0.0394	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Nickel	2.03	MG_KG		3.11	130	2200	150	Y					0.172	0.574	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Perchlorate	2.31	UG_KG	U			82000	5500						0.692	5.77	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Potassium	160	MG_KG	J	359				Y					57.4	287	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Selenium	0.287	MG_KG	U	1.59	1.5	580	39						0.172	0.574	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.574	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Sodium	172	MG_KG	U	250									57.4	287	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Thallium	0.23	MG_KG	U		0.28	1.2	0.078						0.172	0.459	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Vanadium	6.35	MG_KG		17.6	6	580	39	Y					0.287	0.717	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS219-OC-11D	N	Zinc	443	MG_KG		28.6	1200	35000	2300	Y	Y				0.287	1.15	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Aluminum	4250	MG_KG		12800		100000	7700	Y					2.8	11.2	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Antimony	0.464	MG_KG	UJ	1.87	0.9	47	3.1						0.28	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Arsenic	1.07	MG_KG		1.17	5.8	3	0.67	Y					0.168	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Barium	13	MG_KG		36.7	580	22000	1500	Y					0.28	2.24	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Beryllium	0.17	MG_KG	J	0.195	63	230	16	Y					0.056	0.28	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Cadmium	0.081	MG_KG	J	0.2	3	98	7	Y					0.056	0.28	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Calcium	22600	MG_KG		8470				Y	Y				56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Chromium	4.54	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Cobalt	0.491	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.28	0.7	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Copper	2.11	MG_KG		17.1	700	4700	310	Y					0.224	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Iron	2310	MG_KG		7210	150	82000	5500	Y					1.68	5.6	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Lead	8.14	MG_KG		27.5	270	800	400	Y					0.084	0.168	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Magnesium	536	MG_KG	J	904				Y					56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Manganese	31.9	MG_KG		37	65	2600	180	Y					0.168	0.84	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Mercury	0.0348	MG_KG	U	0.161	1	35	2.3						0.0137	0.0348	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Nickel	1.92	MG_KG		3.11	130	2200	150	Y					0.168	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Perchlorate	2.25	UG_KG	U			82000	5500						0.675	5.63	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Potassium	167	MG_KG	J	359				Y					56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Selenium	0.28	MG_KG	U	1.59	1.5	580	39						0.168	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.056	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Sodium	168	MG_KG	U	250									56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Thallium	0.224	MG_KG	U		0.28	1.2	0.078						0.168	0.448	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Vanadium	6.31	MG_KG		17.6	6	580	39	Y					0.28	0.7	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS220-IC-11D	N	Zinc	1180	MG_KG		28.6	1200	35000	2300	Y	Y				1.4	5.6	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Aluminum	8680	MG_KG		12800		100000	7700	Y					2.7	10.8	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Antimony	0.432	MG_KG	UJ	1.87	0.9	47	3.1						0.27	0.539	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Arsenic	1.03	MG_KG		1.17	5.8	3	0.67	Y					0.162	0.539	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Barium	21.9	MG_KG		36.7	580	22000	1500	Y					0.27	2.16	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Beryllium	0.202	MG_KG	J	0.195	63	230	16	Y	Y				0.0539	0.27	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Cadmium	0.108	MG_KG	U	0.2	3	98	7						0.0539	0.27	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Calcium	274	MG_KG	U	8470									53.9	270	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Chromium	7.33	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.539	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Cobalt	0.944	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.27	0.674	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Copper	1.43	MG_KG		17.1	700	4700	310	Y					0.216	0.539	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Iron	3870	MG_KG		7210	150	82000	5500	Y					1.62	5.39	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Lead	4.92	MG_KG		27.5	270	800	400	Y					0.0809	0.162	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Magnesium	268	MG_KG	UJ	904									53.9	270	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Manganese	10.6	MG_KG		37	65	2600	180	Y					0.162	0.809	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Mercury	0.0212	MG_KG	J	0.161	1	35	2.3	Y					0.0141	0.0358	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Nickel	2.7	MG_KG		3.11	130	2200	150	Y					0.162	0.539	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Perchlorate	2.24	UG_KG	U			82000	5500						0.673	5.61	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Potassium	187	MG_KG	J	359				Y					53.9	270	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Selenium	0.19	MG_KG	J	1.59	1.5	580	39	Y					0.162	0.539	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.0539	0.539	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Sodium	162	MG_KG	U	250									53.9	270	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Thallium	0.216	MG_KG	U		0.28	1.2	0.078						0.216	0.432	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Vanadium	9.32	MG_KG		17.6	6	580	39	Y					0.27	0.674	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS221-OC-11D	N	Zinc	10.9	MG_KG		28.6	1200	35000	2300	Y					0.27	1.08	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Aluminum	9330	MG_KG		12800		100000	7700	Y					2.67	10.7	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Antimony	0.428	MG_KG	UJ	1.87	0.9	47	3.1						0.267	0.535	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Arsenic	1.07	MG_KG		1.17	5.8	3	0.67	Y					0.16	0.535	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Barium	23	MG_KG		36.7	580	22000	1500	Y					0.267	2.14	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Beryllium	0.217	MG_KG	J	0.195	63	230	16	Y	Y				0.0535	0.267	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Cadmium	0.107	MG_KG	U	0.2	3	98	7						0.0535	0.267	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Calcium	283	MG_KG	U	8470									53.5	267	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Chromium	7.72	MG_KG		17.4	3.8	6.3	0.3	Y					0.107	0.535	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Cobalt	0.984	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.267	0.668	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Copper	1.48	MG_KG		17.1	700	4700	310	Y					0.214	0.535	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Iron	4270	MG_KG		7210	150	82000	5500	Y					1.6	5.35	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Lead	5.21	MG_KG		27.5	270	800	400	Y					0.0802	0.16	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Magnesium	290	MG_KG	UJ	904									53.5	267	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Manganese	11.5	MG_KG		37	65	2600	180	Y					0.16	0.802	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Mercury	0.0191	MG_KG	J	0.161	1	35	2.3	Y					0.0151	0.0383	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Nickel	2.93	MG_KG		3.11	130	2200	150	Y					0.16	0.535	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Perchlorate	2.25	UG_KG	U			82000	5500						0.674	5.62	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Potassium	198	MG_KG	J	359				Y					53.5	267	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Selenium	0.267	MG_KG	U	1.59	1.5	580	39						0.16	0.535	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Silver	0.107	MG_KG	U	0.354	3.4	580	39						0.0535	0.535	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Sodium	160	MG_KG	U	250									53.5	267	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Thallium	0.214	MG_KG	U		0.28	1.2	0.078						0.16	0.428	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Vanadium	9.95	MG_KG		17.6	6	580	39	Y					0.267	0.668	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS222-IC-11D	N	Zinc	14.5	MG_KG		28.6	1200	35000	2300	Y					0.267	1.07	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Aluminum	13200	MG_KG		12800		100000	7700	Y	Y			Y	2.8	11.2	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Antimony	0.448	MG_KG	UJ	1.87	0.9	47	3.1						0.28	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Arsenic	1.48	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.168	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Barium	34.9	MG_KG		36.7	580	22000	1500	Y					0.28	2.24	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Beryllium	0.301	MG_KG		0.195	63	230	16	Y	Y				0.056	0.28	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.056	0.28	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Calcium	406	MG_KG	U	8470									56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Chromium	9.96	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Cobalt	1.09	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.28	0.7	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Copper	2.41	MG_KG		17.1	700	4700	310	Y					0.224	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Iron	5860	MG_KG		7210	150	82000	5500	Y					1.68	5.6	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Lead	6.84	MG_KG		27.5	270	800	400	Y					0.084	0.168	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Magnesium	403	MG_KG	UJ	904									56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Manganese	20.6	MG_KG		37	65	2600	180	Y					0.168	0.84	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Mercury	0.0203	MG_KG	J	0.161	1	35	2.3	Y					0.013	0.0331	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Nickel	3.88	MG_KG		3.11	130	2200	150	Y	Y				0.168	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Perchlorate	2.27	UG_KG	U			82000	5500						0.682	5.68	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	PETN	455	UG_KG	U			160000	12000						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Potassium	245	MG_KG	J	359				Y					56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	RDX	182	UG_KG	U			28000	6000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Selenium	0.279	MG_KG	J	1.59	1.5	580	39	Y					0.168	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.112	0.56	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Sodium	168	MG_KG	U	250									56	280	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Thallium	0.28	MG_KG	U		0.28	1.2	0.078						0.28	0.448	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Vanadium	14.4	MG_KG		17.6	6	580	39	Y					0.28	0.7	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223D-OC-11D	FD	Zinc	11.2	MG_KG		28.6	1200	35000	2300	Y					0.28	1.12	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Aluminum	9200	MG_KG		12800		100000	7700	Y					2.71	10.8	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Antimony	0.433	MG_KG	UJ	1.87	0.9	47	3.1						0.271	0.541	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Arsenic	1.11	MG_KG		1.17	5.8	3	0.67	Y					0.162	0.541	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Barium	24.1	MG_KG		36.7	580	22000	1500	Y					0.271	2.16	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Beryllium	0.214	MG_KG	J	0.195	63	230	16	Y	Y				0.0541	0.271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Cadmium	0.108	MG_KG	U	0.2	3	98	7						0.0541	0.271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Calcium	314	MG_KG	U	8470									54.1	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Chromium	7.68	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.541	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Cobalt	0.868	MG_KG		0.414	0.9	35	2.3	Y	Y				0.271	0.677	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Copper	1.84	MG_KG		17.1	700	4700	310	Y					0.216	0.541	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Iron	4050	MG_KG		7210	150	82000	5500	Y					1.62	5.41	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Lead	5.63	MG_KG		27.5	270	800	400	Y					0.0812	0.162	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Magnesium	289	MG_KG	UJ	904									54.1	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Manganese	15.7	MG_KG		37	65	2600	180	Y					0.162	0.812	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Mercury	0.0217	MG_KG	J	0.161	1	35	2.3	Y					0.0125	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Nickel	2.71	MG_KG		3.11	130	2200	150	Y					0.162	0.541	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Perchlorate	2.25	UG_KG	U			82000	5500						0.675	5.63	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	PETN	455	UG_KG	U			160000	12000						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Potassium	199	MG_KG	J	359				Y					54.1	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	RDX	182	UG_KG	U			28000	6000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Selenium	0.271	MG_KG	U	1.59	1.5	580	39						0.162	0.541	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.108	0.541	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Sodium	162	MG_KG	U	250									54.1	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Thallium	0.271	MG_KG	U		0.28	1.2	0.078						0.271	0.433	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Vanadium	10.3	MG_KG		17.6	6	580	39	Y					0.271	0.677	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS223-OC-11D	N	Zinc	11.3	MG_KG		28.6	1200	35000	2300	Y					0.271	1.08	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Aluminum	9770	MG_KG		12800		100000	7700	Y					2.74	11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Antimony	0.439	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.548	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Arsenic	1.19	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.548	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Barium	25.2	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Beryllium	0.224	MG_KG	J	0.195	63	230	16	Y	Y				0.0548	0.274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0548	0.274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Calcium	369	MG_KG	U	8470									54.8	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Chromium	8.22	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.548	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Cobalt	0.878	MG_KG		0.414	0.9	35	2.3	Y	Y				0.274	0.685	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Copper	1.94	MG_KG		17.1	700	4700	310	Y					0.219	0.548	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Iron	4460	MG_KG		7210	150	82000	5500	Y					1.64	5.48	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Lead	5.52	MG_KG		27.5	270	800	400	Y					0.0822	0.164	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Magnesium	300	MG_KG	UJ	904									54.8	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Manganese	16.3	MG_KG		37	65	2600	180	Y					0.164	0.822	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Mercury	0.0204	MG_KG	J	0.161	1	35	2.3	Y					0.0134	0.034	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Nickel	2.74	MG_KG		3.11	130	2200	150	Y					0.164	0.548	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Perchlorate	2.27	UG_KG	U			82000	5500						0.681	5.67	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Potassium	208	MG_KG	J	359				Y					54.8	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Selenium	0.182	MG_KG	J	1.59	1.5	580	39	Y					0.164	0.548	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.548	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Sodium	164	MG_KG	U	250									54.8	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Thallium	0.219	MG_KG	U		0.28	1.2	0.078						0.219	0.439	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Vanadium	11.2	MG_KG		17.6	6	580	39	Y					0.274	0.685	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS224-IC-11D	N	Zinc	10	MG_KG		28.6	1200	35000	2300	Y					0.274	1.1	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Aluminum	10500	MG_KG		12800		100000	7700	Y					2.88	11.5	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Antimony	0.461	MG_KG	UJ	1.87	0.9	47	3.1						0.288	0.576	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Arsenic	1.34	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.576	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Barium	28.4	MG_KG		36.7	580	22000	1500	Y					0.288	2.3	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Beryllium	0.255	MG_KG	J	0.195	63	230	16	Y	Y				0.0576	0.288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0576	0.288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Calcium	407	MG_KG	U	8470									57.6	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Chromium	8.7	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.576	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Cobalt	0.929	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.288	0.72	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Copper	2.37	MG_KG		17.1	700	4700	310	Y					0.23	0.576	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Iron	4600	MG_KG		7210	150	82000	5500	Y					1.73	5.76	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Lead	6.54	MG_KG		27.5	270	800	400	Y					0.0864	0.173	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Magnesium	334	MG_KG	UJ	904									57.6	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Manganese	22.7	MG_KG		37	65	2600	180	Y					0.173	0.864	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Mercury	0.0185	MG_KG	J	0.161	1	35	2.3	Y					0.0121	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Nickel	3.02	MG_KG		3.11	130	2200	150	Y					0.173	0.576	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Perchlorate	2.29	UG_KG	U			82000	5500						0.687	5.73	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Potassium	223	MG_KG	J	359				Y					57.6	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Selenium	0.288	MG_KG	U	1.59	1.5	580	39						0.173	0.576	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.576	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Sodium	173	MG_KG	U	250									57.6	288	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Thallium	0.23	MG_KG	U		0.28	1.2	0.078						0.23	0.461	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Vanadium	12.1	MG_KG		17.6	6	580	39	Y					0.288	0.72	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS225-OC-11D	N	Zinc	12.4	MG_KG		28.6	1200	35000	2300	Y					0.288	1.15	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Aluminum	10200	MG_KG		12800		100000	7700	Y					2.84	11.3	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Antimony	0.454	MG_KG	UJ	1.87	0.9	47	3.1						0.284	0.567	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Arsenic	1.15	MG_KG		1.17	5.8	3	0.67	Y					0.17	0.567	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Barium	25.3	MG_KG		36.7	580	22000	1500	Y					0.284	2.27	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Beryllium	0.245	MG_KG	J	0.195	63	230	16	Y	Y				0.0567	0.284	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0567	0.284	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Calcium	334	MG_KG	U	8470									56.7	284	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Chromium	8.45	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.567	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Cobalt	1.09	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.284	0.709	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Copper	1.75	MG_KG		17.1	700	4700	310	Y					0.227	0.567	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Iron	4430	MG_KG		7210	150	82000	5500	Y					1.7	5.67	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Lead	5.44	MG_KG		27.5	270	800	400	Y					0.0851	0.17	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Magnesium	316	MG_KG	UJ	904									56.7	284	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Manganese	13.2	MG_KG		37	65	2600	180	Y					0.17	0.851	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Mercury	0.0194	MG_KG	J	0.161	1	35	2.3	Y					0.0143	0.0364	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Nickel	3.15	MG_KG		3.11	130	2200	150	Y	Y				0.17	0.567	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.684	5.7	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Potassium	218	MG_KG	J	359				Y					56.7	284	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Selenium	0.284	MG_KG	U	1.59	1.5	580	39						0.17	0.567	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0567	0.567	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Sodium	170	MG_KG	U	250									56.7	284	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Thallium	0.227	MG_KG	U		0.28	1.2	0.078						0.227	0.454	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Vanadium	10.8	MG_KG		17.6	6	580	39	Y					0.284	0.709	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS226-IC-11D	N	Zinc	8.33	MG_KG		28.6	1200	35000	2300	Y					0.284	1.13	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Aluminum	10100	MG_KG		12800		100000	7700	Y					2.78	11.1	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Antimony	0.444	MG_KG	UJ	1.87	0.9	47	3.1						0.278	0.555	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Arsenic	1.41	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.167	0.555	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Barium	30.1	MG_KG		36.7	580	22000	1500	Y					0.278	2.22	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Beryllium	0.243	MG_KG	J	0.195	63	230	16	Y	Y				0.0555	0.278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0555	0.278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Calcium	382	MG_KG	U	8470									55.5	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Chromium	8.18	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.555	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Cobalt	0.904	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.278	0.694	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Copper	2.27	MG_KG		17.1	700	4700	310	Y					0.222	0.555	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Iron	4590	MG_KG		7210	150	82000	5500	Y					1.67	5.55	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Lead	6.76	MG_KG		27.5	270	800	400	Y					0.0833	0.167	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Magnesium	306	MG_KG	UJ	904									55.5	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Manganese	29.9	MG_KG		37	65	2600	180	Y					0.167	0.833	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Mercury	0.0218	MG_KG	J	0.161	1	35	2.3	Y					0.014	0.0355	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Nickel	2.88	MG_KG		3.11	130	2200	150	Y					0.167	0.555	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Perchlorate	2.3	UG_KG	U			82000	5500						0.689	5.74	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Potassium	186	MG_KG	J	359				Y					55.5	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Selenium	0.278	MG_KG	U	1.59	1.5	580	39						0.167	0.555	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.111	0.555	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Sodium	167	MG_KG	U	250									55.5	278	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Thallium	0.222	MG_KG	U		0.28	1.2	0.078						0.222	0.444	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Vanadium	11.6	MG_KG		17.6	6	580	39	Y					0.278	0.694	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS227-OC-11D	N	Zinc	12	MG_KG		28.6	1200	35000	2300	Y					0.278	1.11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Aluminum	10900	MG_KG		12800		100000	7700	Y					2.74	10.9	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Antimony	0.438	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.547	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Arsenic	1.48	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.547	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Barium	31.7	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Beryllium	0.262	MG_KG	J	0.195	63	230	16	Y	Y				0.0547	0.274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0547	0.274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Calcium	387	MG_KG	U	8470									54.7	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Chromium	8.96	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.547	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Cobalt	0.952	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.274	0.684	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Copper	2.53	MG_KG		17.1	700	4700	310	Y					0.219	0.547	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Iron	4790	MG_KG		7210	150	82000	5500	Y					1.64	5.47	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Lead	7.2	MG_KG		27.5	270	800	400	Y					0.0821	0.164	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Magnesium	344	MG_KG	UJ	904									54.7	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Manganese	26.5	MG_KG		37	65	2600	180	Y					0.164	0.821	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Mercury	0.0192	MG_KG	J	0.161	1	35	2.3	Y					0.0115	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Nickel	3.15	MG_KG		3.11	130	2200	150	Y	Y				0.164	0.547	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Perchlorate	2.3	UG_KG	U			82000	5500						0.689	5.74	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	PETN	455	UG_KG	U			160000	12000						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Potassium	217	MG_KG	J	359				Y					54.7	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	RDX	182	UG_KG	U			28000	6000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Selenium	0.191	MG_KG	J	1.59	1.5	580	39	Y					0.164	0.547	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.109	0.547	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Sodium	164	MG_KG	U	250									54.7	274	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Thallium	0.274	MG_KG	U		0.28	1.2	0.078						0.274	0.438	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Vanadium	12.6	MG_KG		17.6	6	580	39	Y					0.274	0.684	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS228-IC-11D	N	Zinc	11.7	MG_KG		28.6	1200	35000	2300	Y					0.274	1.09	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Aluminum	10300	MG_KG		12800		100000	7700	Y					2.76	11	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Antimony	0.442	MG_KG	UJ	1.87	0.9	47	3.1						0.276	0.552	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Arsenic	1.27	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.166	0.552	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Barium	28.9	MG_KG		36.7	580	22000	1500	Y					0.276	2.21	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Beryllium	0.24	MG_KG	J	0.195	63	230	16	Y	Y				0.0552	0.276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0552	0.276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Calcium	396	MG_KG	U	8470									55.2	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Chromium	8.53	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.552	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Cobalt	0.958	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.276	0.69	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Copper	2.32	MG_KG		17.1	700	4700	310	Y					0.221	0.552	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Iron	4760	MG_KG		7210	150	82000	5500	Y					1.66	5.52	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Lead	6.37	MG_KG		27.5	270	800	400	Y					0.0829	0.166	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Magnesium	320	MG_KG	UJ	904									55.2	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Manganese	18.8	MG_KG		37	65	2600	180	Y					0.166	0.829	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Mercury	0.0215	MG_KG	J	0.161	1	35	2.3	Y					0.0153	0.0388	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Nickel	3.03	MG_KG		3.11	130	2200	150	Y					0.166	0.552	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Perchlorate	2.28	UG_KG	U			82000	5500						0.683	5.69	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	PETN	455	UG_KG	U			160000	12000						227	909	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Potassium	211	MG_KG	J	359				Y					55.2	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	RDX	182	UG_KG	U			28000	6000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Selenium	0.285	MG_KG	J	1.59	1.5	580	39	Y					0.166	0.552	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.552	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Sodium	166	MG_KG	U	250									55.2	276	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Thallium	0.221	MG_KG	U		0.28	1.2	0.078						0.221	0.442	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Vanadium	12	MG_KG		17.6	6	580	39	Y					0.276	0.69	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS229-OC-11D	N	Zinc	11.1	MG_KG		28.6	1200	35000	2300	Y					0.276	1.1	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Aluminum	8370	MG_KG		12800		100000	7700	Y					2.79	11.2	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Antimony	0.446	MG_KG	UJ	1.87	0.9	47	3.1						0.279	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Arsenic	1.05	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Barium	21.6	MG_KG		36.7	580	22000	1500	Y					0.279	2.23	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Beryllium	0.207	MG_KG	J	0.195	63	230	16	Y	Y				0.0558	0.279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0558	0.279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Calcium	278	MG_KG	U	8470									55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Chromium	7.06	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Cobalt	0.879	MG_KG		0.414	0.9	35	2.3	Y	Y				0.279	0.697	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Copper	1.7	MG_KG		17.1	700	4700	310	Y					0.223	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	HMX	167	UG_KG	U			5700000	380000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Iron	3710	MG_KG		7210	150	82000	5500	Y					1.67	5.58	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Lead	5.1	MG_KG		27.5	270	800	400	Y					0.0836	0.167	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Magnesium	277	MG_KG	UJ	904									55.8	279	10/13/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Manganese	14.9	MG_KG		37	65	2600	180	Y					0.167	0.836	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Mercury	0.0211	MG_KG	J	0.161	1	35	2.3	Y					0.0117	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Nickel	2.63	MG_KG		3.11	130	2200	150	Y					0.167	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Nitroglycerin	417	UG_KG	U			8200	620						208	833	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Perchlorate	2.22	UG_KG	U			82000	5500						0.666	5.55	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	PETN	417	UG_KG	U			160000	12000						208	833	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Potassium	192	MG_KG	J	359				Y					55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	RDX	167	UG_KG	U			28000	6000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Selenium	0.168	MG_KG	J	1.59	1.5	580	39	Y					0.167	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0558	0.558	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Sodium	167	MG_KG	U	250									55.8	279	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Tetryl	167	UG_KG	U			160000	12000						83.3	333	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Thallium	0.223	MG_KG	U		0.28	1.2	0.078						0.223	0.446	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Vanadium	9.18	MG_KG		17.6	6	580	39	Y					0.279	0.697	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230D-IC-11D	FD	Zinc	13.7	MG_KG		28.6	1200	35000	2300	Y					0.279	1.12	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Aluminum	9860	MG_KG		12800		100000	7700	Y					2.71	10.9	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Antimony	0.434	MG_KG	UJ	1.87	0.9	47	3.1						0.271	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Arsenic	1.02	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Barium	23.3	MG_KG		36.7	580	22000	1500	Y					0.271	2.17	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Beryllium	0.226	MG_KG	J	0.195	63	230	16	Y	Y				0.0543	0.271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0543	0.271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Calcium	322	MG_KG	U	8470									54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Chromium	8.29	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Cobalt	1.11	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.271	0.679	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Copper	1.78	MG_KG		17.1	700	4700	310	Y					0.217	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Iron	4250	MG_KG		7210	150	82000	5500	Y					1.63	5.43	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Lead	5.23	MG_KG		27.5	270	800	400	Y					0.0814	0.163	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Magnesium	304	MG_KG	UJ	904									54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Manganese	11.6	MG_KG		37	65	2600	180	Y					0.163	0.814	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Mercury	0.0193	MG_KG	J	0.161	1	35	2.3	Y					0.0129	0.033	10/13/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Nickel	3.17	MG_KG		3.11	130	2200	150	Y	Y				0.163	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	10/13/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Perchlorate	2.25	UG_KG	U			82000	5500						0.674	5.62	10/13/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Potassium	211	MG_KG	J	359				Y					54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Selenium	0.271	MG_KG	U	1.59	1.5	580	39						0.163	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.0543	0.543	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Sodium	163	MG_KG	U	250									54.3	271	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	10/13/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Thallium	0.217	MG_KG	U		0.28	1.2	0.078						0.217	0.434	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Vanadium	10.3	MG_KG		17.6	6	580	39	Y					0.271	0.679	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS230-IC-11D	N	Zinc	15.6	MG_KG		28.6	1200	35000	2300	Y					0.271	1.09	10/13/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Aluminum	8970	MG_KG		12800		100000	7700	Y					2.83	11.3	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Antimony	0.453	MG_KG	UJ	1.87	0.9	47	3.1						0.283	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Arsenic	1.2	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.17	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Barium	23	MG_KG		36.7	580	22000	1500	Y					0.283	2.26	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Beryllium	0.242	MG_KG	J	0.195	63	230	16	Y	Y				0.0566	0.283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Cadmium	0.0838	MG_KG	J	0.2	3	98	7	Y					0.0566	0.283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Calcium	561	MG_KG	J	8470				Y					56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Chromium	7.19	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.113	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Cobalt	0.79	MG_KG		0.414	0.9	35	2.3	Y	Y				0.283	0.707	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Copper	1.92	MG_KG		17.1	700	4700	310	Y					0.226	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Iron	4450	MG_KG		7210	150	82000	5500	Y					1.7	5.66	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Lead	5.6	MG_KG		27.5	270	800	400	Y					0.0848	0.17	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Magnesium	331	MG_KG	J	904				Y					56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Manganese	19.7	MG_KG		37	65	2600	180	Y					0.17	0.848	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Mercury	0.0175	MG_KG	J	0.161	1	35	2.3	Y					0.0143	0.0363	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Nickel	2.87	MG_KG		3.11	130	2200	150	Y					0.17	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Perchlorate	7.42	UG_KG	J			82000	5500	Y					5.68	22.7	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Potassium	248	MG_KG	J	359				Y					56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Selenium	0.283	MG_KG	U	1.59	1.5	580	39						0.17	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Sodium	170	MG_KG	U	250									56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	11/22/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.226	0.453	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Vanadium	9.8	MG_KG	J	17.6	6	580	39	Y					0.283	0.707	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS231-OC-11D	N	Zinc	210	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.283	1.13	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Aluminum	10500	MG_KG		12800		100000	7700	Y					2.74	11	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Antimony	0.438	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.548	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Arsenic	1.26	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.548	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Barium	25.3	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Beryllium	0.265	MG_KG	J	0.195	63	230	16	Y	Y				0.0548	0.274	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0548	0.274	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Calcium	285	MG_KG	J	8470				Y					54.8	274	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Chromium	8.28	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.11	0.548	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Cobalt	0.946	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.274	0.685	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Copper	1.74	MG_KG		17.1	700	4700	310	Y					0.219	0.548	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	HMX	138	UG_KG	U			5700000	380000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Iron	4510	MG_KG		7210	150	82000	5500	Y					1.64	5.48	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Lead	5.52	MG_KG		27.5	270	800	400	Y					0.0822	0.164	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Magnesium	369	MG_KG	J	904				Y					54.8	274	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Manganese	17.7	MG_KG		37	65	2600	180	Y					0.164	0.822	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Mercury	0.0178	MG_KG	J	0.161	1	35	2.3	Y					0.0147	0.0372	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Nickel	3.26	MG_KG		3.11	130	2200	150	Y	Y				0.164	0.548	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Perchlorate	8.14	UG_KG	J			82000	5500	Y					5.64	22.6	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	PETN	345	UG_KG	U			160000	12000						172	690	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Potassium	281	MG_KG	J	359				Y					54.8	274	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	RDX	138	UG_KG	U			28000	6000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Selenium	0.274	MG_KG	U	1.59	1.5	580	39						0.164	0.548	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.548	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Sodium	164	MG_KG	U	250									54.8	274	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Tetryl	138	UG_KG	U			160000	12000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Thallium	0.219	MG_KG	U		0.28	1.2	0.078						0.219	0.438	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Vanadium	11.2	MG_KG	J	17.6	6	580	39	Y					0.274	0.685	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS232-IC-11D	N	Zinc	106	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.274	1.1	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Aluminum	10000	MG_KG		12800		100000	7700	Y					2.85	11.4	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Antimony	0.457	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Arsenic	1.34	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Barium	22.7	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Beryllium	0.248	MG_KG	J	0.195	63	230	16	Y	Y				0.0571	0.285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Cadmium	0.146	MG_KG	J	0.2	3	98	7	Y					0.0571	0.285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Calcium	320	MG_KG	J	8470				Y					57.1	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Chromium	7.96	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.114	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Cobalt	0.795	MG_KG		0.414	0.9	35	2.3	Y	Y				0.285	0.714	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Copper	2.31	MG_KG		17.1	700	4700	310	Y					0.228	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Iron	4540	MG_KG		7210	150	82000	5500	Y					1.71	5.71	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Lead	7	MG_KG		27.5	270	800	400	Y					0.0856	0.171	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Magnesium	344	MG_KG	J	904				Y					57.1	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Manganese	23.8	MG_KG		37	65	2600	180	Y					0.171	0.856	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Mercury	0.0157	MG_KG	J	0.161	1	35	2.3	Y					0.0139	0.0353	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Nickel	2.93	MG_KG		3.11	130	2200	150	Y					0.171	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Perchlorate	11.4	UG_KG	U			82000	5500						5.71	22.8	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Potassium	273	MG_KG	J	359				Y					57.1	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Selenium	0.285	MG_KG	U	1.59	1.5	580	39						0.171	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Sodium	171	MG_KG	U	250									57.1	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Thallium	0.285	MG_KG	U		0.28	1.2	0.078						0.285	0.457	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Vanadium	10.7	MG_KG	J	17.6	6	580	39	Y					0.285	0.714	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS233-OC-11D	N	Zinc	355	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.285	1.14	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Aluminum	9550	MG_KG		12800		100000	7700	Y					2.89	11.5	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Antimony	0.462	MG_KG	UJ	1.87	0.9	47	3.1						0.289	0.577	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Arsenic	1.25	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.577	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Barium	22.2	MG_KG		36.7	580	22000	1500	Y					0.289	2.31	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Beryllium	0.243	MG_KG	J	0.195	63	230	16	Y	Y				0.0577	0.289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Cadmium	0.139	MG_KG	J	0.2	3	98	7	Y					0.0577	0.289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Calcium	277	MG_KG	J	8470				Y					57.7	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Chromium	7.59	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.577	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Cobalt	0.793	MG_KG		0.414	0.9	35	2.3	Y	Y				0.289	0.722	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Copper	1.92	MG_KG		17.1	700	4700	310	Y					0.231	0.577	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Iron	4720	MG_KG		7210	150	82000	5500	Y					1.73	5.77	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Lead	7.34	MG_KG		27.5	270	800	400	Y					0.0866	0.173	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Magnesium	335	MG_KG	J	904				Y					57.7	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Manganese	22.1	MG_KG		37	65	2600	180	Y					0.173	0.866	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Mercury	0.0194	MG_KG	J	0.161	1	35	2.3	Y					0.0157	0.0398	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Nickel	2.82	MG_KG		3.11	130	2200	150	Y					0.173	0.577	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.63	22.5	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Potassium	254	MG_KG	J	359				Y					57.7	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Selenium	0.289	MG_KG	U	1.59	1.5	580	39						0.173	0.577	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.577	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Sodium	173	MG_KG	U	250									57.7	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Thallium	0.231	MG_KG	U		0.28	1.2	0.078						0.231	0.462	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Vanadium	10.6	MG_KG	J	17.6	6	580	39	Y					0.289	0.722	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS234-IC-11D	N	Zinc	398	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.289	1.15	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Aluminum	14500	MG_KG		12800		100000	7700	Y	Y			Y	2.86	11.4	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Antimony	0.457	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Arsenic	1.67	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Barium	30.8	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Beryllium	0.313	MG_KG		0.195	63	230	16	Y	Y				0.0571	0.286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.0571	0.286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Calcium	351	MG_KG	J	8470				Y					57.1	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Chromium	10.9	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.114	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Cobalt	1.04	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.286	0.714	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Copper	2.03	MG_KG		17.1	700	4700	310	Y					0.229	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Iron	6360	MG_KG		7210	150	82000	5500	Y					1.71	5.71	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Lead	5.72	MG_KG		27.5	270	800	400	Y					0.0857	0.171	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Magnesium	514	MG_KG	J	904				Y					57.1	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Manganese	20.4	MG_KG		37	65	2600	180	Y					0.171	0.857	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Mercury	0.0201	MG_KG	J	0.161	1	35	2.3	Y					0.0152	0.0385	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Nickel	4.18	MG_KG		3.11	130	2200	150	Y	Y				0.171	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.83	23.3	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Potassium	346	MG_KG	J	359				Y					57.1	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Selenium	0.286	MG_KG	U	1.59	1.5	580	39						0.171	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Silver	0.171	MG_KG	U	0.354	3.4	580	39						0.171	0.571	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Sodium	171	MG_KG	U	250									57.1	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.229	0.457	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Vanadium	16	MG_KG	J	17.6	6	580	39	Y					0.286	0.714	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS235-OC-11D	N	Zinc	12.3	MG_KG	J	28.6	1200	35000	2300	Y					0.286	1.14	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Aluminum	14100	MG_KG		12800		100000	7700	Y	Y			Y	2.89	11.6	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Antimony	0.462	MG_KG	UJ	1.87	0.9	47	3.1						0.289	0.578	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Arsenic	1.72	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.578	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Barium	29.6	MG_KG		36.7	580	22000	1500	Y					0.289	2.31	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Beryllium	0.303	MG_KG		0.195	63	230	16	Y	Y				0.0578	0.289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Cadmium	0.116	MG_KG	U	0.2	3	98	7						0.0578	0.289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Calcium	330	MG_KG	J	8470				Y					57.8	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Chromium	11	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.116	0.578	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Cobalt	1.11	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.289	0.722	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Copper	1.97	MG_KG		17.1	700	4700	310	Y					0.231	0.578	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	HMX	154	UG_KG	U			5700000	380000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Iron	6310	MG_KG		7210	150	82000	5500	Y					1.73	5.78	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Lead	5.57	MG_KG		27.5	270	800	400	Y					0.0867	0.173	11/22/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Magnesium	509	MG_KG	J	904				Y					57.8	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Manganese	17.9	MG_KG		37	65	2600	180	Y					0.173	0.867	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Mercury	0.0212	MG_KG	J	0.161	1	35	2.3	Y					0.0122	0.0309	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Nickel	4.16	MG_KG		3.11	130	2200	150	Y	Y				0.173	0.578	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Nitroglycerin	385	UG_KG	U			8200	620						192	769	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Perchlorate	11.6	UG_KG	U			82000	5500						5.78	23.1	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	PETN	385	UG_KG	U			160000	12000						192	769	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Potassium	364	MG_KG	J	359				Y	Y				57.8	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	RDX	154	UG_KG	U			28000	6000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Selenium	0.289	MG_KG	U	1.59	1.5	580	39						0.173	0.578	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Silver	0.173	MG_KG	U	0.354	3.4	580	39						0.173	0.578	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Sodium	173	MG_KG	U	250									57.8	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Tetryl	154	UG_KG	U			160000	12000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Thallium	0.231	MG_KG	U		0.28	1.2	0.078						0.231	0.462	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Vanadium	15.9	MG_KG	J	17.6	6	580	39	Y					0.289	0.722	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236D-IC-11D	FD	Zinc	9.39	MG_KG	J	28.6	1200	35000	2300	Y					0.289	1.16	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Aluminum	13700	MG_KG		12800		100000	7700	Y	Y			Y	2.9	11.6	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Antimony	0.464	MG_KG	UJ	1.87	0.9	47	3.1						0.29	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Arsenic	1.39	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Barium	28.1	MG_KG		36.7	580	22000	1500	Y					0.29	2.32	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Beryllium	0.295	MG_KG		0.195	63	230	16	Y	Y				0.0579	0.29	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Cadmium	0.116	MG_KG	U	0.2	3	98	7						0.0579	0.29	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Calcium	380	MG_KG	J	8470				Y					57.9	290	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Chromium	10.9	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.116	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Cobalt	1	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.29	0.724	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Copper	2.06	MG_KG		17.1	700	4700	310	Y					0.232	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Iron	6120	MG_KG		7210	150	82000	5500	Y					1.74	5.79	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Lead	5.96	MG_KG		27.5	270	800	400	Y					0.0869	0.174	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Magnesium	506	MG_KG	J	904				Y					57.9	290	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Manganese	19.5	MG_KG		37	65	2600	180	Y					0.174	0.869	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Mercury	0.019	MG_KG	J	0.161	1	35	2.3	Y					0.0137	0.0348	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Nickel	3.76	MG_KG		3.11	130	2200	150	Y	Y				0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.79	23.2	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Potassium	370	MG_KG	J	359				Y	Y				57.9	290	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Selenium	0.29	MG_KG	U	1.59	1.5	580	39						0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Silver	0.174	MG_KG	U	0.354	3.4	580	39						0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Sodium	174	MG_KG	U	250									57.9	290	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Thallium	0.232	MG_KG	U		0.28	1.2	0.078						0.232	0.464	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Vanadium	15.8	MG_KG	J	17.6	6	580	39	Y					0.29	0.724	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS236-IC-11D	N	Zinc	13.7	MG_KG	J	28.6	1200	35000	2300	Y					0.29	1.16	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Aluminum	12400	MG_KG		12800		100000	7700	Y					2.89	11.6	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Antimony	0.463	MG_KG	UJ	1.87	0.9	47	3.1						0.289	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Arsenic	1.46	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Barium	25.8	MG_KG		36.7	580	22000	1500	Y					0.289	2.32	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Beryllium	0.288	MG_KG	J	0.195	63	230	16	Y	Y				0.0579	0.289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Cadmium	0.116	MG_KG	U	0.2	3	98	7						0.0579	0.289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Calcium	334	MG_KG	J	8470				Y					57.9	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Chromium	9.71	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.116	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Cobalt	0.95	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.289	0.724	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Copper	1.92	MG_KG		17.1	700	4700	310	Y					0.232	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Iron	5400	MG_KG		7210	150	82000	5500	Y					1.74	5.79	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Lead	5.13	MG_KG		27.5	270	800	400	Y					0.0868	0.174	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Magnesium	443	MG_KG	J	904				Y					57.9	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Manganese	16.7	MG_KG		37	65	2600	180	Y					0.174	0.868	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Mercury	0.0182	MG_KG	J	0.161	1	35	2.3	Y					0.014	0.0356	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Nickel	3.66	MG_KG		3.11	130	2200	150	Y	Y				0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.76	23	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Potassium	334	MG_KG	J	359				Y					57.9	289	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Selenium	0.289	MG_KG	U	1.59	1.5	580	39						0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Silver	0.174	MG_KG	U	0.354	3.4	580	39						0.174	0.579	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Sodium	174	MG_KG	U	250									57.9	289	11/22/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Thallium	0.232	MG_KG	U		0.28	1.2	0.078						0.232	0.463	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Vanadium	13.7	MG_KG	J	17.6	6	580	39	Y					0.289	0.724	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS237-OC-11D	N	Zinc	11.5	MG_KG	J	28.6	1200	35000	2300	Y					0.289	1.16	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Aluminum	13400	MG_KG		12800		100000	7700	Y	Y			Y	2.82	11.3	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Antimony	0.451	MG_KG	UJ	1.87	0.9	47	3.1						0.282	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Arsenic	1.47	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.169	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Barium	28	MG_KG		36.7	580	22000	1500	Y					0.282	2.26	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Beryllium	0.301	MG_KG		0.195	63	230	16	Y	Y				0.0564	0.282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0564	0.282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Calcium	354	MG_KG	J	8470				Y					56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Chromium	10.5	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.113	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Cobalt	1.05	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.282	0.705	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Copper	2.04	MG_KG		17.1	700	4700	310	Y					0.226	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Iron	5700	MG_KG		7210	150	82000	5500	Y					1.69	5.64	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Lead	5.99	MG_KG		27.5	270	800	400	Y					0.0846	0.169	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Magnesium	461	MG_KG	J	904				Y					56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Manganese	17.5	MG_KG		37	65	2600	180	Y					0.169	0.846	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Mercury	0.019	MG_KG	J	0.161	1	35	2.3	Y					0.0135	0.0341	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Nickel	3.89	MG_KG		3.11	130	2200	150	Y	Y				0.169	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.86	23.5	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	PETN	417	UG_KG	U			160000	12000						208	833	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Potassium	342	MG_KG	J	359				Y					56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	RDX	167	UG_KG	U			28000	6000						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Selenium	0.209	MG_KG	J	1.59	1.5	580	39	Y					0.169	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Silver	0.169	MG_KG	U	0.354	3.4	580	39						0.169	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Sodium	169	MG_KG	U	250									56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.226	0.451	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Vanadium	14.8	MG_KG	J	17.6	6	580	39	Y					0.282	0.705	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS238-IC-11D	N	Zinc	12.8	MG_KG	J	28.6	1200	35000	2300	Y					0.282	1.13	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Aluminum	11900	MG_KG		12800		100000	7700	Y					2.85	11.4	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Antimony	0.456	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.569	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Arsenic	1.54	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.569	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Barium	27.2	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Beryllium	0.282	MG_KG	J	0.195	63	230	16	Y	Y				0.0569	0.285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.0569	0.285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Calcium	395	MG_KG	J	8470				Y					56.9	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Chromium	9.36	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.114	0.569	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Cobalt	0.92	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.285	0.712	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Copper	2.21	MG_KG		17.1	700	4700	310	Y					0.228	0.569	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Iron	5230	MG_KG		7210	150	82000	5500	Y					1.71	5.69	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Lead	6.72	MG_KG		27.5	270	800	400	Y					0.0854	0.171	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Magnesium	414	MG_KG	J	904				Y					56.9	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Manganese	22.2	MG_KG		37	65	2600	180	Y					0.171	0.854	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Mercury	0.0217	MG_KG	J	0.161	1	35	2.3	Y					0.0134	0.034	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Nickel	3.46	MG_KG		3.11	130	2200	150	Y	Y				0.171	0.569	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.67	22.7	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	PETN	385	UG_KG	U			160000	12000						192	769	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Potassium	316	MG_KG	J	359				Y					56.9	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	RDX	154	UG_KG	U			28000	6000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Selenium	0.214	MG_KG	J	1.59	1.5	580	39	Y					0.171	0.569	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Silver	0.171	MG_KG	U	0.354	3.4	580	39						0.171	0.569	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Sodium	171	MG_KG	U	250									56.9	285	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.228	0.456	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Vanadium	13.4	MG_KG	J	17.6	6	580	39	Y					0.285	0.712	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS239-OC-11D	N	Zinc	74.5	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.285	1.14	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	11/22/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Aluminum	10300	MG_KG		12800		100000	7700	Y					2.84	11.4	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Antimony	0.454	MG_KG	UJ	1.87	0.9	47	3.1						0.284	0.568	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Arsenic	1.34	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.17	0.568	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Barium	24.5	MG_KG		36.7	580	22000	1500	Y					0.284	2.27	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Beryllium	0.259	MG_KG	J	0.195	63	230	16	Y	Y				0.0568	0.284	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.0568	0.284	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Calcium	430	MG_KG	J	8470				Y					56.8	284	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Chromium	8.13	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.114	0.568	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Cobalt	0.862	MG_KG		0.414	0.9	35	2.3	Y	Y				0.284	0.71	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Copper	2.3	MG_KG		17.1	700	4700	310	Y					0.227	0.568	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	HMX	138	UG_KG	U			5700000	380000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Iron	4430	MG_KG		7210	150	82000	5500	Y					1.7	5.68	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Lead	83	MG_KG		27.5	270	800	400	Y	Y				0.0852	0.17	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Magnesium	380	MG_KG	J	904				Y					56.8	284	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Manganese	23	MG_KG		37	65	2600	180	Y					0.17	0.852	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Mercury	0.0209	MG_KG	J	0.161	1	35	2.3	Y					0.0112	0.0286	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Nickel	3.04	MG_KG		3.11	130	2200	150	Y					0.17	0.568	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Perchlorate	11.2	UG_KG	U			82000	5500						5.62	22.5	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	PETN	345	UG_KG	U			160000	12000						172	690	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Potassium	268	MG_KG	J	359				Y					56.8	284	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	RDX	138	UG_KG	U			28000	6000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Selenium	0.195	MG_KG	J	1.59	1.5	580	39	Y					0.17	0.568	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.568	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Sodium	170	MG_KG	U	250									56.8	284	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Tetryl	138	UG_KG	U			160000	12000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Thallium	0.284	MG_KG	U		0.28	1.2	0.078						0.284	0.454	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Vanadium	11.4	MG_KG	J	17.6	6	580	39	Y					0.284	0.71	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS240-IC-11D	N	Zinc	48.3	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.284	1.14	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Aluminum	8880	MG_KG		12800		100000	7700	Y					2.75	11	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Antimony	0.44	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Arsenic	1.1	MG_KG		1.17	5.8	3	0.67	Y					0.165	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Barium	21.6	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Beryllium	0.225	MG_KG	J	0.195	63	230	16	Y	Y				0.0549	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Cadmium	0.0823	MG_KG	J	0.2	3	98	7	Y					0.0549	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Calcium	247	MG_KG	J	8470				Y					54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Chromium	7.19	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.11	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Cobalt	0.834	MG_KG		0.414	0.9	35	2.3	Y	Y				0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Copper	1.4	MG_KG		17.1	700	4700	310	Y					0.22	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Iron	3970	MG_KG		7210	150	82000	5500	Y					1.65	5.49	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Lead	6.7	MG_KG		27.5	270	800	400	Y					0.0824	0.165	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Magnesium	303	MG_KG	J	904				Y					54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Manganese	17.1	MG_KG		37	65	2600	180	Y					0.165	0.824	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Mercury	0.0243	MG_KG	J	0.161	1	35	2.3	Y					0.0138	0.035	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Nickel	2.76	MG_KG		3.11	130	2200	150	Y					0.165	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.66	22.6	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Potassium	232	MG_KG	J	359				Y					54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Sodium	165	MG_KG	U	250									54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.165	0.44	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Vanadium	9.64	MG_KG	J	17.6	6	580	39	Y					0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS241-OC-11D	N	Zinc	262	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.275	1.1	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Aluminum	8350	MG_KG		12800		100000	7700	Y					2.78	11.1	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Antimony	0.445	MG_KG	UJ	1.87	0.9	47	3.1						0.278	0.556	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Arsenic	1.1	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.556	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Barium	20.5	MG_KG		36.7	580	22000	1500	Y					0.278	2.22	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Beryllium	0.219	MG_KG	J	0.195	63	230	16	Y	Y				0.0556	0.278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Cadmium	0.0665	MG_KG	J	0.2	3	98	7	Y					0.0556	0.278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Calcium	246	MG_KG	J	8470				Y					55.6	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Chromium	6.8	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.111	0.556	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Cobalt	0.751	MG_KG		0.414	0.9	35	2.3	Y	Y				0.278	0.695	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Copper	1.87	MG_KG		17.1	700	4700	310	Y					0.222	0.556	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Iron	3690	MG_KG		7210	150	82000	5500	Y					1.67	5.56	11/22/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Lead	16.7	MG_KG		27.5	270	800	400	Y					0.0834	0.167	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Magnesium	285	MG_KG	J	904				Y					55.6	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Manganese	20	MG_KG		37	65	2600	180	Y					0.167	0.834	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Mercury	0.0228	MG_KG	J	0.161	1	35	2.3	Y					0.0116	0.0296	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Nickel	2.58	MG_KG		3.11	130	2200	150	Y					0.167	0.556	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.67	22.7	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Potassium	218	MG_KG	J	359				Y					55.6	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Selenium	0.278	MG_KG	U	1.59	1.5	580	39						0.167	0.556	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.111	0.556	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Sodium	167	MG_KG	U	250									55.6	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Thallium	0.278	MG_KG	U		0.28	1.2	0.078						0.278	0.445	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Vanadium	9.27	MG_KG	J	17.6	6	580	39	Y					0.278	0.695	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS242-IC-11D	N	Zinc	181	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.278	1.11	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Aluminum	12400	MG_KG		12800		100000	7700	Y					2.73	10.9	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Antimony	0.436	MG_KG	UJ	1.87	0.9	47	3.1						0.273	0.545	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Arsenic	1.42	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.545	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Barium	25.3	MG_KG		36.7	580	22000	1500	Y					0.273	2.18	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Beryllium	0.266	MG_KG	J	0.195	63	230	16	Y	Y				0.0545	0.273	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0545	0.273	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Calcium	356	MG_KG	J	8470				Y					54.5	273	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Chromium	10	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.109	0.545	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Cobalt	0.988	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.273	0.682	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Copper	2.16	MG_KG		17.1	700	4700	310	Y					0.218	0.545	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Iron	5220	MG_KG		7210	150	82000	5500	Y					1.64	5.45	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Lead	10.7	MG_KG		27.5	270	800	400	Y					0.0818	0.164	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Magnesium	403	MG_KG	J	904				Y					54.5	273	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Manganese	20.7	MG_KG		37	65	2600	180	Y					0.164	0.818	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Mercury	0.0274	MG_KG	J	0.161	1	35	2.3	Y					0.0135	0.0344	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Nickel	3.32	MG_KG		3.11	130	2200	150	Y	Y				0.164	0.545	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.73	22.9	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Potassium	343	MG_KG	J	359				Y					54.5	273	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Selenium	0.273	MG_KG	U	1.59	1.5	580	39						0.164	0.545	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.109	0.545	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Sodium	164	MG_KG	U	250									54.5	273	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Thallium	0.273	MG_KG	U		0.28	1.2	0.078						0.273	0.436	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Vanadium	13.6	MG_KG	J	17.6	6	580	39	Y					0.273	0.682	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS243-OC-11D	N	Zinc	129	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.273	1.09	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Aluminum	9220	MG_KG		12800		100000	7700	Y					2.91	11.6	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Antimony	0.466	MG_KG	UJ	1.87	0.9	47	3.1						0.291	0.582	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Arsenic	1.31	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.175	0.582	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Barium	25.5	MG_KG		36.7	580	22000	1500	Y					0.291	2.33	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Beryllium	0.245	MG_KG	J	0.195	63	230	16	Y	Y				0.0582	0.291	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Cadmium	0.116	MG_KG	U	0.2	3	98	7						0.0582	0.291	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Calcium	391	MG_KG	J	8470				Y					58.2	291	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Chromium	7.64	MG_KG		17.4	3.8	6.3	0.3	Y					0.116	0.582	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Cobalt	0.865	MG_KG		0.414	0.9	35	2.3	Y	Y				0.291	0.728	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Copper	1.93	MG_KG		17.1	700	4700	310	Y					0.233	0.582	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Iron	4940	MG_KG	J	7210	150	82000	5500	Y					1.75	5.82	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Lead	19.8	MG_KG		27.5	270	800	400	Y					0.0873	0.175	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Magnesium	305	MG_KG	J	904				Y					58.2	291	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Manganese	21	MG_KG		37	65	2600	180	Y					0.175	0.873	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Mercury	0.0226	MG_KG	J	0.161	1	35	2.3	Y					0.0115	0.0291	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Nickel	2.6	MG_KG		3.11	130	2200	150	Y					0.175	0.582	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.73	22.9	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Potassium	184	MG_KG	J	359				Y					58.2	291	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Selenium	0.291	MG_KG	U	1.59	1.5	580	39						0.175	0.582	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.116	0.582	11/22/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Sodium	175	MG_KG	UJ	250									58.2	291	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Thallium	0.233	MG_KG	U		0.28	1.2	0.078						0.175	0.466	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Vanadium	10.7	MG_KG		17.6	6	580	39	Y					0.291	0.728	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS244-IC-11D	N	Zinc	123	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.291	1.16	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Aluminum	7460	MG_KG		12800		100000	7700	Y					2.75	11	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Antimony	0.44	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Barium	24	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Beryllium	0.196	MG_KG	J	0.195	63	230	16	Y	Y				0.055	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.055	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Calcium	236	MG_KG	J	8470				Y					55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Chromium	5.99	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Cobalt	0.62	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Copper	7.26	MG_KG		17.1	700	4700	310	Y					0.22	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	HMX	148	UG_KG	U			5700000	380000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Iron	3860	MG_KG	J	7210	150	82000	5500	Y					1.65	5.5	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Lead	6.75	MG_KG		27.5	270	800	400	Y					0.0825	0.165	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Magnesium	247	MG_KG	J	904				Y					55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Manganese	19.4	MG_KG		37	65	2600	180	Y					0.165	0.825	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Mercury	0.0257	MG_KG	J	0.161	1	35	2.3	Y					0.0156	0.0397	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Nickel	2.15	MG_KG		3.11	130	2200	150	Y					0.165	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Nitroglycerin	370	UG_KG	U			8200	620						185	741	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Perchlorate	11.2	UG_KG	U			82000	5500						5.61	22.4	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	PETN	370	UG_KG	U			160000	12000						185	741	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Potassium	147	MG_KG	J	359				Y					55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	RDX	148	UG_KG	U			28000	6000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Selenium	0.235	MG_KG	J	1.59	1.5	580	39	Y					0.165	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.055	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Sodium	165	MG_KG	UJ	250									55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Tetryl	148	UG_KG	U			160000	12000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.165	0.44	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Vanadium	8.69	MG_KG		17.6	6	580	39	Y					0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245D-OC-11D	FD	Zinc	10.7	MG_KG	J	28.6	1200	35000	2300	Y					0.275	1.1	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Aluminum	6490	MG_KG		12800		100000	7700	Y					2.71	10.8	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Antimony	0.433	MG_KG	UJ	1.87	0.9	47	3.1						0.271	0.541	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Arsenic	1.1	MG_KG		1.17	5.8	3	0.67	Y					0.162	0.541	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Barium	21.8	MG_KG		36.7	580	22000	1500	Y					0.271	2.17	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Beryllium	0.188	MG_KG	J	0.195	63	230	16	Y					0.0541	0.271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Cadmium	0.108	MG_KG	U	0.2	3	98	7						0.0541	0.271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Calcium	219	MG_KG	J	8470				Y					54.1	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Chromium	5.11	MG_KG		17.4	3.8	6.3	0.3	Y					0.108	0.541	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Cobalt	0.545	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.271	0.677	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Copper	11.7	MG_KG		17.1	700	4700	310	Y					0.217	0.541	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Iron	3210	MG_KG	J	7210	150	82000	5500	Y					1.62	5.41	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Lead	7.44	MG_KG		27.5	270	800	400	Y					0.0812	0.162	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Magnesium	220	MG_KG	J	904				Y					54.1	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Manganese	19.1	MG_KG		37	65	2600	180	Y					0.162	0.812	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Mercury	0.0228	MG_KG	J	0.161	1	35	2.3	Y					0.0136	0.0345	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Nickel	1.98	MG_KG		3.11	130	2200	150	Y					0.162	0.541	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Perchlorate	11.2	UG_KG	U			82000	5500						5.58	22.3	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	PETN	370	UG_KG	U			160000	12000						185	741	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Potassium	134	MG_KG	J	359				Y					54.1	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	RDX	148	UG_KG	U			28000	6000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Selenium	0.271	MG_KG	U	1.59	1.5	580	39						0.162	0.541	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Silver	0.108	MG_KG	U	0.354	3.4	580	39						0.108	0.541	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Sodium	162	MG_KG	UJ	250									54.1	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Thallium	0.271	MG_KG	U		0.28	1.2	0.078						0.271	0.433	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Vanadium	7.41	MG_KG		17.6	6	580	39	Y					0.271	0.677	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS245-OC-11D	N	Zinc	12.3	MG_KG	J	28.6	1200	35000	2300	Y					0.271	1.08	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	11/22/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Aluminum	6900	MG_KG		12800		100000	7700	Y					2.75	11	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Antimony	0.44	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Barium	22.4	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Beryllium	0.195	MG_KG	J	0.195	63	230	16	Y					0.0549	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0549	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Calcium	216	MG_KG	J	8470				Y					54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Chromium	5.3	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Cobalt	0.551	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Copper	18.3	MG_KG		17.1	700	4700	310	Y	Y				0.22	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	HMX	160	UG_KG	U			5700000	380000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Iron	3500	MG_KG	J	7210	150	82000	5500	Y					1.65	5.49	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Lead	7.23	MG_KG		27.5	270	800	400	Y					0.0824	0.165	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Magnesium	231	MG_KG	J	904				Y					54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Manganese	20.9	MG_KG		37	65	2600	180	Y					0.165	0.824	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Mercury	0.0216	MG_KG	J	0.161	1	35	2.3	Y					0.0135	0.0343	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Nickel	2.01	MG_KG		3.11	130	2200	150	Y					0.165	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Perchlorate	11.1	UG_KG	U			82000	5500						5.55	22.2	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	PETN	400	UG_KG	U			160000	12000						200	800	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Potassium	138	MG_KG	J	359				Y					54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	RDX	160	UG_KG	U			28000	6000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.549	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Sodium	165	MG_KG	UJ	250									54.9	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Tetryl	160	UG_KG	U			160000	12000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.22	0.44	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Vanadium	7.81	MG_KG		17.6	6	580	39	Y					0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS246-IC-11D	N	Zinc	11.6	MG_KG	J	28.6	1200	35000	2300	Y					0.275	1.1	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Aluminum	6400	MG_KG		12800		100000	7700	Y					2.68	10.7	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Antimony	0.43	MG_KG	UJ	1.87	0.9	47	3.1						0.268	0.537	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Arsenic	0.936	MG_KG		1.17	5.8	3	0.67	Y					0.161	0.537	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Barium	18.7	MG_KG		36.7	580	22000	1500	Y					0.268	2.15	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Beryllium	0.177	MG_KG	J	0.195	63	230	16	Y					0.0537	0.268	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Cadmium	0.107	MG_KG	U	0.2	3	98	7						0.0537	0.268	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Calcium	273	MG_KG	J	8470				Y					53.7	268	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Chromium	5.23	MG_KG		17.4	3.8	6.3	0.3	Y					0.107	0.537	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Cobalt	0.609	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.268	0.671	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Copper	1.37	MG_KG		17.1	700	4700	310	Y					0.215	0.537	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Iron	3330	MG_KG	J	7210	150	82000	5500	Y					1.61	5.37	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Lead	5	MG_KG		27.5	270	800	400	Y					0.0805	0.161	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Magnesium	215	MG_KG	J	904				Y					53.7	268	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Manganese	13.7	MG_KG		37	65	2600	180	Y					0.161	0.805	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Mercury	0.0238	MG_KG	J	0.161	1	35	2.3	Y					0.0157	0.0399	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Nickel	1.9	MG_KG		3.11	130	2200	150	Y					0.161	0.537	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.64	22.6	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Potassium	132	MG_KG	J	359				Y					53.7	268	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Selenium	0.268	MG_KG	U	1.59	1.5	580	39						0.161	0.537	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Silver	0.107	MG_KG	U	0.354	3.4	580	39						0.107	0.537	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Sodium	161	MG_KG	UJ	250									53.7	268	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Thallium	0.215	MG_KG	U		0.28	1.2	0.078						0.215	0.43	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Vanadium	6.95	MG_KG		17.6	6	580	39	Y					0.268	0.671	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS247-OC-11D	N	Zinc	99.2	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.268	1.07	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Aluminum	9600	MG_KG		12800		100000	7700	Y					2.82	11.3	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Antimony	0.451	MG_KG	UJ	1.87	0.9	47	3.1						0.282	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Arsenic	1.29	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.169	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Barium	25.7	MG_KG		36.7	580	22000	1500	Y					0.282	2.26	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Beryllium	0.233	MG_KG	J	0.195	63	230	16	Y	Y				0.0564	0.282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0564	0.282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Calcium	411	MG_KG	J	8470				Y					56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Chromium	7.58	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Cobalt	0.732	MG_KG		0.414	0.9	35	2.3	Y	Y				0.282	0.705	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Copper	2	MG_KG		17.1	700	4700	310	Y					0.226	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	11/22/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Iron	5150	MG_KG	J	7210	150	82000	5500	Y					1.69	5.64	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Lead	5.63	MG_KG		27.5	270	800	400	Y					0.0846	0.169	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Magnesium	309	MG_KG	J	904				Y					56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Manganese	16.2	MG_KG		37	65	2600	180	Y					0.169	0.846	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Mercury	0.0243	MG_KG	J	0.161	1	35	2.3	Y					0.0131	0.0333	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Nickel	2.58	MG_KG		3.11	130	2200	150	Y					0.169	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Perchlorate	11.4	UG_KG	U			82000	5500						5.72	22.9	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Potassium	179	MG_KG	J	359				Y					56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Selenium	0.282	MG_KG	U	1.59	1.5	580	39						0.169	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.564	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Sodium	169	MG_KG	UJ	250									56.4	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.226	0.451	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Vanadium	11	MG_KG		17.6	6	580	39	Y					0.282	0.705	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS248-IC-11D	N	Zinc	18.2	MG_KG	J	28.6	1200	35000	2300	Y					0.282	1.13	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Aluminum	6370	MG_KG		12800		100000	7700	Y					2.82	11.3	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Antimony	0.452	MG_KG	UJ	1.87	0.9	47	3.1						0.282	0.565	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Arsenic	1.12	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.565	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Barium	21.5	MG_KG		36.7	580	22000	1500	Y					0.282	2.26	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Beryllium	0.194	MG_KG	J	0.195	63	230	16	Y					0.0565	0.282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0565	0.282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Calcium	336	MG_KG	J	8470				Y					56.5	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Chromium	5.2	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.565	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Cobalt	0.589	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.282	0.706	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Copper	4.08	MG_KG		17.1	700	4700	310	Y					0.226	0.565	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Iron	3250	MG_KG	J	7210	150	82000	5500	Y					1.69	5.65	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Lead	8.35	MG_KG		27.5	270	800	400	Y					0.0847	0.169	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Magnesium	231	MG_KG	J	904				Y					56.5	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Manganese	22.1	MG_KG		37	65	2600	180	Y					0.169	0.847	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Mercury	0.0226	MG_KG	J	0.161	1	35	2.3	Y					0.0145	0.0369	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Nickel	2.01	MG_KG		3.11	130	2200	150	Y					0.169	0.565	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Perchlorate	11.2	UG_KG	U			82000	5500						5.59	22.4	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	PETN	357	UG_KG	U			160000	12000						179	714	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Potassium	155	MG_KG	J	359				Y					56.5	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	RDX	143	UG_KG	U			28000	6000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Selenium	0.282	MG_KG	U	1.59	1.5	580	39						0.169	0.565	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.565	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Sodium	169	MG_KG	UJ	250									56.5	282	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.226	0.452	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Vanadium	7.45	MG_KG		17.6	6	580	39	Y					0.282	0.706	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS249-OC-11D	N	Zinc	51.7	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.282	1.13	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Aluminum	5740	MG_KG		12800		100000	7700	Y					2.94	11.7	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Antimony	0.47	MG_KG	UJ	1.87	0.9	47	3.1						0.294	0.587	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Arsenic	1.04	MG_KG		1.17	5.8	3	0.67	Y					0.176	0.587	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Barium	19.8	MG_KG		36.7	580	22000	1500	Y					0.294	2.35	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Beryllium	0.172	MG_KG	J	0.195	63	230	16	Y					0.0587	0.294	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0587	0.294	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Calcium	394	MG_KG	J	8470				Y					58.7	294	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Chromium	4.69	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.587	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Cobalt	0.547	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.294	0.734	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Copper	2.58	MG_KG		17.1	700	4700	310	Y					0.235	0.587	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	HMX	160	UG_KG	U			5700000	380000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Iron	2740	MG_KG	J	7210	150	82000	5500	Y					1.76	5.87	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Lead	12.4	MG_KG		27.5	270	800	400	Y					0.0881	0.176	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Magnesium	217	MG_KG	J	904				Y					58.7	294	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Manganese	21.4	MG_KG		37	65	2600	180	Y					0.176	0.881	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Mercury	0.0246	MG_KG	J	0.161	1	35	2.3	Y					0.0127	0.0323	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Nickel	1.81	MG_KG		3.11	130	2200	150	Y					0.176	0.587	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.87	23.5	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	PETN	400	UG_KG	U			160000	12000						200	800	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Potassium	160	MG_KG	J	359				Y					58.7	294	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	RDX	160	UG_KG	U			28000	6000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Selenium	0.178	MG_KG	J	1.59	1.5	580	39	Y					0.176	0.587	11/22/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0587	0.587	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Sodium	176	MG_KG	UJ	250									58.7	294	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Tetryl	160	UG_KG	U			160000	12000						80	320	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Thallium	0.235	MG_KG	U		0.28	1.2	0.078						0.235	0.47	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Vanadium	6.47	MG_KG		17.6	6	580	39	Y					0.294	0.734	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS250-IC-11D	N	Zinc	50.5	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.294	1.17	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Aluminum	7980	MG_KG		12800		100000	7700	Y					2.83	11.3	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Antimony	0.453	MG_KG	UJ	1.87	0.9	47	3.1						0.283	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Arsenic	1.09	MG_KG		1.17	5.8	3	0.67	Y					0.17	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Barium	23.4	MG_KG		36.7	580	22000	1500	Y					0.283	2.26	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Beryllium	0.208	MG_KG	J	0.195	63	230	16	Y	Y				0.0566	0.283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0566	0.283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Calcium	297	MG_KG	J	8470				Y					56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Chromium	6.55	MG_KG		17.4	3.8	6.3	0.3	Y					0.113	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Cobalt	0.834	MG_KG		0.414	0.9	35	2.3	Y	Y				0.283	0.708	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Copper	1.68	MG_KG		17.1	700	4700	310	Y					0.226	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Iron	4010	MG_KG	J	7210	150	82000	5500	Y					1.7	5.66	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Lead	5.8	MG_KG		27.5	270	800	400	Y					0.0849	0.17	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Magnesium	267	MG_KG	J	904				Y					56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Manganese	15.7	MG_KG		37	65	2600	180	Y					0.17	0.849	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Mercury	0.0236	MG_KG	J	0.161	1	35	2.3	Y					0.0123	0.0311	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Nickel	2.44	MG_KG		3.11	130	2200	150	Y					0.17	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.66	22.6	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	PETN	455	UG_KG	U			160000	12000						227	909	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Potassium	160	MG_KG	J	359				Y					56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	RDX	182	UG_KG	U			28000	6000						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Selenium	0.283	MG_KG	U	1.59	1.5	580	39						0.17	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0566	0.566	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Sodium	170	MG_KG	UJ	250									56.6	283	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Thallium	0.226	MG_KG	U		0.28	1.2	0.078						0.226	0.453	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Vanadium	8.88	MG_KG		17.6	6	580	39	Y					0.283	0.708	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS251-OC-11D	N	Zinc	93.1	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.283	1.13	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Aluminum	6860	MG_KG		12800		100000	7700	Y					2.75	11	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Antimony	0.44	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Barium	21.8	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Beryllium	0.186	MG_KG	J	0.195	63	230	16	Y					0.055	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Cadmium	0.113	MG_KG	J	0.2	3	98	7	Y					0.055	0.275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Calcium	257	MG_KG	J	8470				Y					55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Chromium	5.72	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Cobalt	0.709	MG_KG		0.414	0.9	35	2.3	Y	Y				0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Copper	2.78	MG_KG		17.1	700	4700	310	Y					0.22	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	HMX	174	UG_KG	U			5700000	380000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Iron	11500	MG_KG	J	7210	150	82000	5500	Y	Y	Y		Y	1.65	5.5	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Lead	7.46	MG_KG		27.5	270	800	400	Y					0.0824	0.165	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Magnesium	232	MG_KG	J	904				Y					55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Manganese	31.4	MG_KG		37	65	2600	180	Y					0.165	0.824	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Mercury	0.0192	MG_KG	J	0.161	1	35	2.3	Y					0.0126	0.032	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Nickel	2.4	MG_KG		3.11	130	2200	150	Y					0.165	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.66	22.6	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	PETN	435	UG_KG	U			160000	12000						217	870	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Potassium	132	MG_KG	J	359				Y					55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	RDX	174	UG_KG	U			28000	6000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.055	0.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Sodium	165	MG_KG	UJ	250									55	275	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Tetryl	174	UG_KG	U			160000	12000						87	348	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.165	0.44	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Vanadium	7.45	MG_KG		17.6	6	580	39	Y					0.275	0.687	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS252-IC-11D	N	Zinc	508	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.275	1.1	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	11/22/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Aluminum	8350	MG_KG		12800		100000	7700	Y					2.96	11.8	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Antimony	0.474	MG_KG	UJ	1.87	0.9	47	3.1						0.296	0.592	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Arsenic	1.26	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.178	0.592	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Barium	25.4	MG_KG		36.7	580	22000	1500	Y					0.296	2.37	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Beryllium	0.227	MG_KG	J	0.195	63	230	16	Y	Y				0.0592	0.296	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Cadmium	0.118	MG_KG	U	0.2	3	98	7						0.0592	0.296	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Calcium	362	MG_KG	J	8470				Y					59.2	296	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Chromium	6.78	MG_KG		17.4	3.8	6.3	0.3	Y					0.118	0.592	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Cobalt	0.737	MG_KG	J	0.414	0.9	35	2.3	Y	Y				0.296	0.74	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Copper	1.84	MG_KG		17.1	700	4700	310	Y					0.237	0.592	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	HMX	148	UG_KG	U			5700000	380000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Iron	4170	MG_KG	J	7210	150	82000	5500	Y					1.78	5.92	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Lead	6.05	MG_KG		27.5	270	800	400	Y					0.0888	0.178	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Magnesium	279	MG_KG	J	904				Y					59.2	296	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Manganese	20.8	MG_KG		37	65	2600	180	Y					0.178	0.888	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Mercury	0.0235	MG_KG	J	0.161	1	35	2.3	Y					0.0141	0.0357	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Nickel	2.39	MG_KG		3.11	130	2200	150	Y					0.178	0.592	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Nitroglycerin	370	UG_KG	U			8200	620						185	741	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Perchlorate	11.9	UG_KG	U			82000	5500						5.95	23.8	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	PETN	370	UG_KG	U			160000	12000						185	741	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Potassium	167	MG_KG	J	359				Y					59.2	296	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	RDX	148	UG_KG	U			28000	6000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Selenium	0.296	MG_KG	U	1.59	1.5	580	39						0.178	0.592	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Silver	0.118	MG_KG	U	0.354	3.4	580	39						0.118	0.592	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Sodium	178	MG_KG	UJ	250									59.2	296	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Tetryl	148	UG_KG	U			160000	12000						74.1	296	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Thallium	0.237	MG_KG	U		0.28	1.2	0.078						0.237	0.474	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Vanadium	9.74	MG_KG		17.6	6	580	39	Y					0.296	0.74	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253D-OC-11D	FD	Zinc	63.5	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.296	1.18	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Aluminum	9950	MG_KG		12800		100000	7700	Y					2.78	11.1	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Antimony	0.444	MG_KG	UJ	1.87	0.9	47	3.1						0.278	0.555	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Arsenic	1.44	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.167	0.555	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Barium	27.4	MG_KG		36.7	580	22000	1500	Y					0.278	2.22	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Beryllium	0.249	MG_KG	J	0.195	63	230	16	Y	Y				0.0555	0.278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0555	0.278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Calcium	427	MG_KG	J	8470				Y					55.5	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Chromium	8.39	MG_KG		17.4	3.8	6.3	0.3	Y					0.111	0.555	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Cobalt	0.834	MG_KG		0.414	0.9	35	2.3	Y	Y				0.278	0.694	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Copper	2.11	MG_KG		17.1	700	4700	310	Y					0.222	0.555	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	HMX	138	UG_KG	U			5700000	380000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Iron	5520	MG_KG	J	7210	150	82000	5500	Y					1.67	5.55	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Lead	7.11	MG_KG		27.5	270	800	400	Y					0.0833	0.167	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Magnesium	329	MG_KG	J	904				Y					55.5	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Manganese	18.2	MG_KG		37	65	2600	180	Y					0.167	0.833	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Mercury	0.0234	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.0302	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Nickel	2.77	MG_KG		3.11	130	2200	150	Y					0.167	0.555	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.64	22.5	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	PETN	345	UG_KG	U			160000	12000						172	690	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Potassium	192	MG_KG	J	359				Y					55.5	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	RDX	138	UG_KG	U			28000	6000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Selenium	0.278	MG_KG	U	1.59	1.5	580	39						0.167	0.555	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.111	0.555	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Sodium	167	MG_KG	UJ	250									55.5	278	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Tetryl	138	UG_KG	U			160000	12000						69	276	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Thallium	0.278	MG_KG	U		0.28	1.2	0.078						0.278	0.444	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Vanadium	12	MG_KG		17.6	6	580	39	Y					0.278	0.694	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS253-OC-11D	N	Zinc	138	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.278	1.11	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Aluminum	8170	MG_KG		12800		100000	7700	Y					2.86	11.5	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Antimony	0.458	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.573	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Arsenic	1.36	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.573	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Barium	24.2	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Beryllium	0.214	MG_KG	J	0.195	63	230	16	Y	Y				0.0573	0.286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0573	0.286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Calcium	372	MG_KG	J	8470				Y					57.3	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Chromium	6.69	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.573	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Cobalt	0.726	MG_KG		0.414	0.9	35	2.3	Y	Y				0.286	0.716	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Copper	2.3	MG_KG		17.1	700	4700	310	Y					0.229	0.573	11/22/11	METAL	6010B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Iron	4590	MG_KG	J	7210	150	82000	5500	Y					1.72	5.73	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Lead	6.5	MG_KG		27.5	270	800	400	Y					0.0859	0.172	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Magnesium	269	MG_KG	J	904				Y					57.3	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Manganese	20.2	MG_KG		37	65	2600	180	Y					0.172	0.859	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Mercury	0.0224	MG_KG	J	0.161	1	35	2.3	Y					0.013	0.033	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Nickel	2.41	MG_KG		3.11	130	2200	150	Y					0.172	0.573	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.67	22.7	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Potassium	158	MG_KG	J	359				Y					57.3	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Selenium	0.286	MG_KG	U	1.59	1.5	580	39						0.172	0.573	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.573	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Sodium	172	MG_KG	UJ	250									57.3	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.229	0.458	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Vanadium	9.33	MG_KG		17.6	6	580	39	Y					0.286	0.716	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS254-IC-11D	N	Zinc	123	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.286	1.15	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Aluminum	8230	MG_KG		12800		100000	7700	Y					2.71	10.9	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Antimony	0.434	MG_KG	UJ	1.87	0.9	47	3.1						0.271	0.543	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Arsenic	1.15	MG_KG		1.17	5.8	3	0.67	Y					0.163	0.543	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Barium	25.5	MG_KG		36.7	580	22000	1500	Y					0.271	2.17	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Beryllium	0.22	MG_KG	J	0.195	63	230	16	Y	Y				0.0543	0.271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Cadmium	0.109	MG_KG	U	0.2	3	98	7						0.0543	0.271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Calcium	393	MG_KG	J	8470				Y					54.3	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Chromium	6.66	MG_KG		17.4	3.8	6.3	0.3	Y					0.109	0.543	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Cobalt	0.767	MG_KG		0.414	0.9	35	2.3	Y	Y				0.271	0.678	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Copper	1.99	MG_KG		17.1	700	4700	310	Y					0.217	0.543	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	HMX	200	UG_KG	U			5700000	380000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Iron	3960	MG_KG	J	7210	150	82000	5500	Y					1.63	5.43	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Lead	5.86	MG_KG		27.5	270	800	400	Y					0.0814	0.163	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Magnesium	273	MG_KG	J	904				Y					54.3	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Manganese	19.4	MG_KG		37	65	2600	180	Y					0.163	0.814	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Mercury	0.0229	MG_KG	J	0.161	1	35	2.3	Y					0.0126	0.0319	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Nickel	2.38	MG_KG		3.11	130	2200	150	Y					0.163	0.543	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.64	22.6	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	PETN	500	UG_KG	U			160000	12000						250	1000	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Potassium	159	MG_KG	J	359				Y					54.3	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	RDX	200	UG_KG	U			28000	6000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Selenium	0.271	MG_KG	U	1.59	1.5	580	39						0.163	0.543	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Silver	0.109	MG_KG	U	0.354	3.4	580	39						0.109	0.543	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Sodium	163	MG_KG	UJ	250									54.3	271	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Tetryl	200	UG_KG	U			160000	12000						100	400	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Thallium	0.271	MG_KG	U		0.28	1.2	0.078						0.271	0.434	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Vanadium	9.4	MG_KG		17.6	6	580	39	Y					0.271	0.678	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS255-OC-11D	N	Zinc	47	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.271	1.09	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Aluminum	9010	MG_KG		12800		100000	7700	Y					2.86	11.4	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Antimony	0.458	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.572	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Arsenic	1.33	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.572	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Barium	26.7	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Beryllium	0.241	MG_KG	J	0.195	63	230	16	Y	Y				0.0572	0.286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.0572	0.286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Calcium	366	MG_KG	J	8470				Y					57.2	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Chromium	7.25	MG_KG		17.4	3.8	6.3	0.3	Y					0.114	0.572	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Cobalt	0.839	MG_KG		0.414	0.9	35	2.3	Y	Y				0.286	0.716	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Copper	1.94	MG_KG		17.1	700	4700	310	Y					0.229	0.572	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Iron	4410	MG_KG	J	7210	150	82000	5500	Y					1.72	5.72	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Lead	7.11	MG_KG		27.5	270	800	400	Y					0.0859	0.172	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Magnesium	311	MG_KG	J	904				Y					57.2	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Manganese	21.3	MG_KG		37	65	2600	180	Y					0.172	0.859	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Mercury	0.0229	MG_KG	J	0.161	1	35	2.3	Y					0.0126	0.0319	11/22/11	METAL	7471A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Nickel	2.74	MG_KG		3.11	130	2200	150	Y					0.172	0.572	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	11/22/11	SVOA	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.64	22.6	11/22/11	EXPLO	6850	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	PETN	476	UG_KG	U			160000	12000						238	952	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Potassium	178	MG_KG	J	359				Y					57.2	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	RDX	190	UG_KG	U			28000	6000						95.2	381	11/22/11	EXPLO	8330A	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Selenium	0.286	MG_KG	U	1.59	1.5	580	39						0.172	0.572	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.572	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Sodium	172	MG_KG	UJ	250									57.2	286	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	11/22/11	EXPLO	8330A	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Thallium	0.286	MG_KG	U		0.28	1.2	0.078						0.286	0.458	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Vanadium	10.3	MG_KG		17.6	6	580	39	Y					0.286	0.716	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS256-IC-11D	N	Zinc	46.2	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.286	1.14	11/22/11	METAL	6010B	SO
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Aluminum	9270	MG_KG		12800		100000	7700	Y					2.81	11.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Antimony	0.45	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Arsenic	1.23	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Barium	24.5	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Beryllium	0.0795	MG_KG	J	0.195	63	230	16	Y					0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Calcium	402	MG_KG		8470				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Chromium	7.6	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Cobalt	0.879	MG_KG		0.414	0.9	35	2.3	Y	Y				0.281	0.703	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Copper	2.17	MG_KG	J	17.1	700	4700	310	Y					0.225	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	HMX	160	UG_KG	U			5700000	380000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Iron	4280	MG_KG		7210	150	82000	5500	Y					1.69	5.62	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Lead	5.71	MG_KG		27.5	270	800	400	Y					0.0843	0.169	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Magnesium	266	MG_KG	J	904				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Manganese	16.9	MG_KG		37	65	2600	180	Y					0.169	0.843	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Mercury	0.015	MG_KG	J	0.161	1	35	2.3	Y					0.011	0.0278	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Nickel	2.64	MG_KG		3.11	130	2200	150	Y					0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.76	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	PETN	400	UG_KG	U			160000	12000						200	800	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Potassium	196	MG_KG	J	359				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	RDX	184	UG_KG	U			28000	6000						184	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Selenium	0.281	MG_KG	U	1.59	1.5	580	39						0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0562	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Sodium	169	MG_KG	U	250									56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Tetryl	160	UG_KG	U			160000	12000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Thallium	0.281	MG_KG	U		0.28	1.2	0.078						0.281	0.45	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Vanadium	10.4	MG_KG		17.6	6	580	39	Y					0.281	0.703	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS257-OC-12A	N	Zinc	44.9	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.281	1.12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Aluminum	9120	MG_KG		12800		100000	7700	Y					2.86	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Antimony	0.458	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.572	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.172	0.572	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Barium	24.5	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Beryllium	0.0774	MG_KG	J	0.195	63	230	16	Y					0.0572	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.0572	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Calcium	400	MG_KG		8470				Y					57.2	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Chromium	7.52	MG_KG		17.4	3.8	6.3	0.3	Y					0.114	0.572	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Cobalt	0.905	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.286	0.715	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Copper	2.09	MG_KG	J	17.1	700	4700	310	Y					0.229	0.572	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Iron	3990	MG_KG		7210	150	82000	5500	Y					1.72	5.72	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Lead	5.62	MG_KG		27.5	270	800	400	Y					0.0858	0.172	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Magnesium	262	MG_KG	J	904				Y					57.2	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Manganese	16.4	MG_KG		37	65	2600	180	Y					0.172	0.858	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Mercury	0.0394	MG_KG	U	0.161	1	35	2.3						0.0155	0.0394	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Nickel	2.61	MG_KG		3.11	130	2200	150	Y					0.172	0.572	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.78	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Potassium	193	MG_KG	J	359				Y					57.2	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	RDX	190	UG_KG	U			28000	6000						190	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Selenium	0.286	MG_KG	U	1.59	1.5	580	39						0.172	0.572	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.572	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Sodium	172	MG_KG	U	250									57.2	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.172	0.458	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Vanadium	9.92	MG_KG		17.6	6	580	39	Y					0.286	0.715	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS258-IC-12A	N	Zinc	41.8	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.286	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Aluminum	9110	MG_KG		12800		100000	7700	Y					2.9	11.6	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Antimony	0.464	MG_KG	UJ	1.87	0.9	47	3.1						0.29	0.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Arsenic	1.07	MG_KG		1.17	5.8	3	0.67	Y					0.174	0.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Barium	23.7	MG_KG		36.7	580	22000	1500	Y					0.29	2.32	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Beryllium	0.0722	MG_KG	J	0.195	63	230	16	Y					0.058	0.29	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Cadmium	0.116	MG_KG	U	0.2	3	98	7						0.058	0.29	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Calcium	386	MG_KG		8470				Y					58	290	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Chromium	7.63	MG_KG		17.4	3.8	6.3	0.3	Y					0.116	0.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Cobalt	0.876	MG_KG		0.414	0.9	35	2.3	Y	Y				0.29	0.725	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Copper	2.03	MG_KG	J	17.1	700	4700	310	Y					0.232	0.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	HMX	138	UG_KG	U			5700000	380000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Iron	4110	MG_KG		7210	150	82000	5500	Y					1.74	5.8	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Lead	5.58	MG_KG		27.5	270	800	400	Y					0.087	0.174	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Magnesium	256	MG_KG	J	904				Y					58	290	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Manganese	15.2	MG_KG		37	65	2600	180	Y					0.174	0.87	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Mercury	0.0336	MG_KG	U	0.161	1	35	2.3						0.0132	0.0336	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Nickel	2.63	MG_KG		3.11	130	2200	150	Y					0.174	0.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.77	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	PETN	345	UG_KG	U			160000	12000						172	690	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Potassium	193	MG_KG	J	359				Y					58	290	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	RDX	138	UG_KG	U			28000	6000						138	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Selenium	0.29	MG_KG	U	1.59	1.5	580	39						0.174	0.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.058	0.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Sodium	174	MG_KG	U	250									58	290	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Tetryl	138	UG_KG	U			160000	12000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Thallium	0.232	MG_KG	U		0.28	1.2	0.078						0.232	0.464	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Vanadium	10.2	MG_KG		17.6	6	580	39	Y					0.29	0.725	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS259-OC-12A	N	Zinc	35.4	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.29	1.16	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Aluminum	8670	MG_KG		12800		100000	7700	Y					2.81	11.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Antimony	0.449	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Arsenic	1.17	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Barium	24.2	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Beryllium	0.0793	MG_KG	J	0.195	63	230	16	Y					0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Calcium	375	MG_KG		8470				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Chromium	7.27	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Cobalt	0.847	MG_KG		0.414	0.9	35	2.3	Y	Y				0.281	0.702	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Copper	2.31	MG_KG	J	17.1	700	4700	310	Y					0.225	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Iron	4230	MG_KG		7210	150	82000	5500	Y					1.69	5.62	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Lead	6.04	MG_KG		27.5	270	800	400	Y					0.0843	0.169	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Magnesium	245	MG_KG	J	904				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Manganese	19.9	MG_KG		37	65	2600	180	Y					0.169	0.843	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Mercury	0.0126	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.0301	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Nickel	2.52	MG_KG		3.11	130	2200	150	Y					0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.79	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	PETN	455	UG_KG	U			160000	12000						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Potassium	183	MG_KG	J	359				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	RDX	182	UG_KG	U			28000	6000						182	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Selenium	0.281	MG_KG	U	1.59	1.5	580	39						0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.112	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Sodium	169	MG_KG	U	250									56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Thallium	0.225	MG_KG	U		0.28	1.2	0.078						0.225	0.449	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Vanadium	9.98	MG_KG		17.6	6	580	39	Y					0.281	0.702	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS260-IC-12A	N	Zinc	95.4	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.281	1.12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Aluminum	9030	MG_KG		12800		100000	7700	Y					2.94	11.8	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Antimony	0.471	MG_KG	UJ	1.87	0.9	47	3.1						0.294	0.588	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Arsenic	1.07	MG_KG		1.17	5.8	3	0.67	Y					0.176	0.588	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Barium	23.7	MG_KG		36.7	580	22000	1500	Y					0.294	2.35	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Beryllium	0.0662	MG_KG	J	0.195	63	230	16	Y					0.0588	0.294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Cadmium	0.118	MG_KG	U	0.2	3	98	7						0.0588	0.294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Calcium	390	MG_KG		8470				Y					58.8	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Chromium	7.53	MG_KG		17.4	3.8	6.3	0.3	Y					0.118	0.588	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Cobalt	0.868	MG_KG		0.414	0.9	35	2.3	Y	Y				0.294	0.735	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Copper	2.09	MG_KG	J	17.1	700	4700	310	Y					0.235	0.588	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Iron	4050	MG_KG		7210	150	82000	5500	Y					1.76	5.88	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Lead	5.46	MG_KG		27.5	270	800	400	Y					0.0882	0.176	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Magnesium	250	MG_KG	J	904				Y					58.8	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Manganese	15.3	MG_KG		37	65	2600	180	Y					0.176	0.882	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Mercury	0.014	MG_KG	J	0.161	1	35	2.3	Y					0.0118	0.03	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Nickel	2.57	MG_KG		3.11	130	2200	150	Y					0.176	0.588	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.76	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	PETN	385	UG_KG	U			160000	12000						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Potassium	190	MG_KG	J	359				Y					58.8	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	RDX	154	UG_KG	U			28000	6000						154	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Selenium	0.294	MG_KG	U	1.59	1.5	580	39						0.176	0.588	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Silver	0.118	MG_KG	U	0.354	3.4	580	39						0.118	0.588	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Sodium	176	MG_KG	U	250									58.8	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Thallium	0.235	MG_KG	U		0.28	1.2	0.078						0.235	0.471	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Vanadium	10.1	MG_KG		17.6	6	580	39	Y					0.294	0.735	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS261-OC-12A	N	Zinc	37.8	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.294	1.18	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Aluminum	8530	MG_KG		12800		100000	7700	Y					2.81	11.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Antimony	0.449	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.561	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Arsenic	1.16	MG_KG		1.17	5.8	3	0.67	Y					0.168	0.561	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Barium	22.7	MG_KG		36.7	580	22000	1500	Y					0.281	2.24	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Beryllium	0.126	MG_KG	J	0.195	63	230	16	Y					0.0561	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0561	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Calcium	428	MG_KG		8470				Y					56.1	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Chromium	7.68	MG_KG		17.4	3.8	6.3	0.3	Y					0.112	0.561	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Cobalt	0.781	MG_KG		0.414	0.9	35	2.3	Y	Y				0.281	0.701	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Copper	2	MG_KG	J	17.1	700	4700	310	Y					0.224	0.561	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	HMX	138	UG_KG	U			5700000	380000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Iron	6750	MG_KG		7210	150	82000	5500	Y					1.68	5.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Lead	6.1	MG_KG		27.5	270	800	400	Y					0.0842	0.168	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Magnesium	232	MG_KG	J	904				Y					56.1	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Manganese	15.9	MG_KG		37	65	2600	180	Y					0.168	0.842	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Mercury	0.0154	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.0301	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Nickel	2.4	MG_KG		3.11	130	2200	150	Y					0.168	0.561	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.78	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	PETN	345	UG_KG	U			160000	12000						172	690	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Potassium	172	MG_KG	J	359				Y					56.1	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	RDX	138	UG_KG	U			28000	6000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Selenium	0.281	MG_KG	U	1.59	1.5	580	39						0.168	0.561	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0561	0.561	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Sodium	168	MG_KG	U	250									56.1	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Tetryl	138	UG_KG	U			160000	12000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Thallium	0.224	MG_KG	U		0.28	1.2	0.078						0.224	0.449	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Vanadium	10.6	MG_KG		17.6	6	580	39	Y					0.281	0.701	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS262-IC-12A	N	Zinc	34.1	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.281	1.12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Aluminum	9180	MG_KG		12800		100000	7700	Y					2.85	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Antimony	0.456	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Arsenic	1.09	MG_KG		1.17	5.8	3	0.67	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Barium	24	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Beryllium	0.0725	MG_KG	J	0.195	63	230	16	Y					0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Calcium	388	MG_KG		8470				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Chromium	7.6	MG_KG		17.4	3.8	6.3	0.3	Y					0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Cobalt	0.862	MG_KG		0.414	0.9	35	2.3	Y	Y				0.285	0.713	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Copper	2.08	MG_KG	J	17.1	700	4700	310	Y					0.228	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Iron	4120	MG_KG		7210	150	82000	5500	Y					1.71	5.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Lead	5.72	MG_KG		27.5	270	800	400	Y					0.0855	0.171	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Magnesium	260	MG_KG	J	904				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Manganese	16	MG_KG		37	65	2600	180	Y					0.171	0.855	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Mercury	0.0137	MG_KG	J	0.161	1	35	2.3	Y					0.013	0.0329	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Nickel	2.57	MG_KG		3.11	130	2200	150	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.82	23.3	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	PETN	357	UG_KG	U			160000	12000						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Potassium	192	MG_KG	J	359				Y					57	285	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	RDX	143	UG_KG	U			28000	6000						143	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Selenium	0.195	MG_KG	J	1.59	1.5	580	39	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.057	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Sodium	171	MG_KG	U	250									57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.228	0.456	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Vanadium	10.2	MG_KG		17.6	6	580	39	Y					0.285	0.713	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS263-OC-12A	N	Zinc	52.7	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.285	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Aluminum	8110	MG_KG		12800		100000	7700	Y					2.75	11	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Antimony	0.441	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.551	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Arsenic	1.08	MG_KG		1.17	5.8	3	0.67	Y					0.165	0.551	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Barium	22	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Beryllium	0.0674	MG_KG	J	0.195	63	230	16	Y					0.0551	0.275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0551	0.275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Calcium	339	MG_KG		8470				Y					55.1	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Chromium	6.77	MG_KG		17.4	3.8	6.3	0.3	Y					0.11	0.551	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Cobalt	0.801	MG_KG		0.414	0.9	35	2.3	Y	Y				0.275	0.689	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Copper	1.79	MG_KG	J	17.1	700	4700	310	Y					0.22	0.551	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	HMX	138	UG_KG	U			5700000	380000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Iron	3740	MG_KG		7210	150	82000	5500	Y					1.65	5.51	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Lead	4.99	MG_KG		27.5	270	800	400	Y					0.0826	0.165	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Magnesium	228	MG_KG	J	904				Y					55.1	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Manganese	13.2	MG_KG		37	65	2600	180	Y					0.165	0.826	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Mercury	0.0338	MG_KG	U	0.161	1	35	2.3						0.0133	0.0338	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Nickel	2.38	MG_KG		3.11	130	2200	150	Y					0.165	0.551	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.81	23.2	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	PETN	345	UG_KG	U			160000	12000						172	690	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Potassium	174	MG_KG	J	359				Y					55.1	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	RDX	138	UG_KG	U			28000	6000						138	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.551	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.0551	0.551	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Sodium	165	MG_KG	U	250									55.1	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Tetryl	138	UG_KG	U			160000	12000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Thallium	0.22	MG_KG	U		0.28	1.2	0.078						0.22	0.441	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Vanadium	9.12	MG_KG		17.6	6	580	39	Y					0.275	0.689	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS264-IC-12A	N	Zinc	19.2	MG_KG	J	28.6	1200	35000	2300	Y					0.275	1.1	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Aluminum	10000	MG_KG		12800		100000	7700	Y					3.01	12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Antimony	0.481	MG_KG	UJ	1.87	0.9	47	3.1						0.301	0.602	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Arsenic	1.31	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.18	0.602	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Barium	26.1	MG_KG		36.7	580	22000	1500	Y					0.301	2.41	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Beryllium	0.0778	MG_KG	J	0.195	63	230	16	Y					0.0602	0.301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Cadmium	0.0804	MG_KG	J	0.2	3	98	7	Y					0.0602	0.301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Calcium	301	MG_KG		8470				Y					60.2	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Chromium	8.41	MG_KG		17.4	3.8	6.3	0.3	Y					0.12	0.602	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Cobalt	1.03	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.301	0.752	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Copper	2.84	MG_KG	J	17.1	700	4700	310	Y					0.241	0.602	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	HMX	200	UG_KG	U			5700000	380000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Iron	5340	MG_KG		7210	150	82000	5500	Y					1.8	6.02	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Lead	7.15	MG_KG		27.5	270	800	400	Y					0.0902	0.18	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Magnesium	270	MG_KG	J	904				Y					60.2	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Manganese	23	MG_KG		37	65	2600	180	Y					0.18	0.902	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Mercury	0.0152	MG_KG	J	0.161	1	35	2.3	Y					0.0149	0.0378	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Nickel	3.01	MG_KG		3.11	130	2200	150	Y					0.18	0.602	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Perchlorate	11.9	UG_KG	U			82000	5500						5.93	23.7	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	PETN	500	UG_KG	U			160000	12000						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Potassium	209	MG_KG	J	359				Y					60.2	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	RDX	250	UG_KG	U			28000	6000						250	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Selenium	0.188	MG_KG	J	1.59	1.5	580	39	Y					0.18	0.602	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Silver	0.12	MG_KG	U	0.354	3.4	580	39						0.12	0.602	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Sodium	180	MG_KG	U	250									60.2	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Tetryl	200	UG_KG	U			160000	12000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Thallium	0.241	MG_KG	U		0.28	1.2	0.078						0.241	0.481	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Vanadium	11.4	MG_KG		17.6	6	580	39	Y					0.301	0.752	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265D-OC-12A	FD	Zinc	255	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.301	1.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	01/25/12	SVOA	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Aluminum	9070	MG_KG		12800		100000	7700	Y					2.87	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Antimony	0.459	MG_KG	UJ	1.87	0.9	47	3.1						0.287	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Arsenic	1.19	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Barium	25.1	MG_KG		36.7	580	22000	1500	Y					0.287	2.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Beryllium	0.0777	MG_KG	J	0.195	63	230	16	Y					0.0574	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Cadmium	0.0641	MG_KG	J	0.2	3	98	7	Y					0.0574	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Calcium	295	MG_KG		8470				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Chromium	7.46	MG_KG		17.4	3.8	6.3	0.3	Y					0.115	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Cobalt	0.899	MG_KG		0.414	0.9	35	2.3	Y	Y				0.287	0.718	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Copper	2.32	MG_KG	J	17.1	700	4700	310	Y					0.23	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Iron	4360	MG_KG		7210	150	82000	5500	Y					1.72	5.74	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Lead	6.96	MG_KG		27.5	270	800	400	Y					0.0861	0.172	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Magnesium	249	MG_KG	J	904				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Manganese	17.7	MG_KG		37	65	2600	180	Y					0.172	0.861	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Mercury	0.0142	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.0302	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Nickel	2.71	MG_KG		3.11	130	2200	150	Y					0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Perchlorate	11.9	UG_KG	U			82000	5500						5.94	23.8	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	PETN	417	UG_KG	U			160000	12000						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Potassium	189	MG_KG	J	359				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	RDX	167	UG_KG	U			28000	6000						167	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Selenium	0.287	MG_KG	U	1.59	1.5	580	39						0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.0574	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Sodium	172	MG_KG	U	250									57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Thallium	0.23	MG_KG	U		0.28	1.2	0.078						0.23	0.459	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Vanadium	9.9	MG_KG		17.6	6	580	39	Y					0.287	0.718	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS265-OC-12A	N	Zinc	185	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.287	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Aluminum	9150	MG_KG		12800		100000	7700	Y					2.93	11.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Antimony	0.468	MG_KG	UJ	1.87	0.9	47	3.1						0.293	0.585	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Arsenic	1.24	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.176	0.585	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Barium	25.8	MG_KG		36.7	580	22000	1500	Y					0.293	2.34	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Beryllium	0.0881	MG_KG	J	0.195	63	230	16	Y					0.0585	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Cadmium	0.0685	MG_KG	J	0.2	3	98	7	Y					0.0585	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Calcium	316	MG_KG		8470				Y					58.5	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Chromium	7.67	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.585	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Cobalt	0.896	MG_KG		0.414	0.9	35	2.3	Y	Y				0.293	0.731	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Copper	2.64	MG_KG	J	17.1	700	4700	310	Y					0.234	0.585	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	HMX	160	UG_KG	U			5700000	380000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Iron	5150	MG_KG		7210	150	82000	5500	Y					1.76	5.85	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Lead	7.26	MG_KG		27.5	270	800	400	Y					0.0878	0.176	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Magnesium	266	MG_KG	J	904				Y					58.5	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Manganese	20.2	MG_KG		37	65	2600	180	Y					0.176	0.878	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Mercury	0.015	MG_KG	J	0.161	1	35	2.3	Y					0.0119	0.0301	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Nickel	2.79	MG_KG		3.11	130	2200	150	Y					0.176	0.585	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Nitroglycerin	400	UG_KG	U			8200	620						200	800	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Perchlorate	11.9	UG_KG	U			82000	5500						5.94	23.8	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	PETN	400	UG_KG	U			160000	12000						200	800	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Potassium	194	MG_KG	J	359				Y					58.5	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	RDX	240	UG_KG	U			28000	6000						240	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Selenium	0.293	MG_KG	U	1.59	1.5	580	39						0.176	0.585	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0585	0.585	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Sodium	176	MG_KG	U	250									58.5	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Tetryl	160	UG_KG	U			160000	12000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Thallium	0.234	MG_KG	U		0.28	1.2	0.078						0.234	0.468	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Vanadium	10.4	MG_KG		17.6	6	580	39	Y					0.293	0.731	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS266-IC-12A	N	Zinc	193	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.293	1.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Aluminum	8830	MG_KG		12800		100000	7700	Y					2.93	11.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Antimony	0.468	MG_KG	UJ	1.87	0.9	47	3.1						0.293	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Arsenic	1.2	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Barium	24.5	MG_KG		36.7	580	22000	1500	Y					0.293	2.34	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Beryllium	0.0746	MG_KG	J	0.195	63	230	16	Y					0.0586	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Cadmium	0.0643	MG_KG	J	0.2	3	98	7	Y					0.0586	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Calcium	303	MG_KG		8470				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Chromium	7.31	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.586	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Cobalt	0.877	MG_KG		0.414	0.9	35	2.3	Y	Y				0.293	0.732	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Copper	2.5	MG_KG	J	17.1	700	4700	310	Y					0.234	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	HMX	200	UG_KG	U			5700000	380000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Iron	4370	MG_KG		7210	150	82000	5500	Y					1.76	5.86	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Lead	6.87	MG_KG		27.5	270	800	400	Y					0.0878	0.176	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Magnesium	253	MG_KG	J	904				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Manganese	19.6	MG_KG		37	65	2600	180	Y					0.176	0.878	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Mercury	0.0155	MG_KG	J	0.161	1	35	2.3	Y					0.0113	0.0286	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Nickel	2.66	MG_KG		3.11	130	2200	150	Y					0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.91	23.7	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	PETN	500	UG_KG	U			160000	12000						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Potassium	187	MG_KG	J	359				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	RDX	250	UG_KG	U			28000	6000						250	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Selenium	0.293	MG_KG	U	1.59	1.5	580	39						0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0586	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Sodium	176	MG_KG	U	250									58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Tetryl	200	UG_KG	U			160000	12000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Thallium	0.234	MG_KG	U		0.28	1.2	0.078						0.234	0.468	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Vanadium	9.8	MG_KG		17.6	6	580	39	Y					0.293	0.732	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS267-OC-12A	N	Zinc	174	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.293	1.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Aluminum	7750	MG_KG		12800		100000	7700	Y					2.96	11.8	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Antimony	0.474	MG_KG	UJ	1.87	0.9	47	3.1						0.296	0.592	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Arsenic	1.12	MG_KG		1.17	5.8	3	0.67	Y					0.178	0.592	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Barium	22	MG_KG		36.7	580	22000	1500	Y					0.296	2.37	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Beryllium	0.0669	MG_KG	J	0.195	63	230	16	Y					0.0592	0.296	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Cadmium	0.118	MG_KG	U	0.2	3	98	7						0.0592	0.296	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Calcium	284	MG_KG	J	8470				Y					59.2	296	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Chromium	6.59	MG_KG		17.4	3.8	6.3	0.3	Y					0.118	0.592	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Cobalt	0.795	MG_KG		0.414	0.9	35	2.3	Y	Y				0.296	0.74	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Copper	2.13	MG_KG	J	17.1	700	4700	310	Y					0.237	0.592	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Iron	3960	MG_KG		7210	150	82000	5500	Y					1.78	5.92	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Lead	7.04	MG_KG		27.5	270	800	400	Y					0.0888	0.178	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Magnesium	217	MG_KG	J	904				Y					59.2	296	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Manganese	19.6	MG_KG		37	65	2600	180	Y					0.178	0.888	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Mercury	0.0368	MG_KG	U	0.161	1	35	2.3						0.0145	0.0368	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Nickel	2.28	MG_KG		3.11	130	2200	150	Y					0.178	0.592	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Perchlorate	11.9	UG_KG	U			82000	5500						5.95	23.8	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	PETN	370	UG_KG	U			160000	12000						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Potassium	167	MG_KG	J	359				Y					59.2	296	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	RDX	185	UG_KG	U			28000	6000						185	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Selenium	0.296	MG_KG	U	1.59	1.5	580	39						0.178	0.592	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Silver	0.118	MG_KG	U	0.354	3.4	580	39						0.0592	0.592	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Sodium	178	MG_KG	U	250									59.2	296	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Thallium	0.237	MG_KG	U		0.28	1.2	0.078						0.178	0.474	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Vanadium	8.68	MG_KG		17.6	6	580	39	Y					0.296	0.74	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS268-IC-12A	N	Zinc	159	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.296	1.18	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Aluminum	9060	MG_KG		12800		100000	7700	Y					3.01	12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Antimony	0.481	MG_KG	UJ	1.87	0.9	47	3.1						0.301	0.601	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Arsenic	1.26	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.18	0.601	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Barium	26	MG_KG		36.7	580	22000	1500	Y					0.301	2.41	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Beryllium	0.0699	MG_KG	J	0.195	63	230	16	Y					0.0601	0.301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Cadmium	0.12	MG_KG	U	0.2	3	98	7						0.0601	0.301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Calcium	332	MG_KG		8470				Y					60.1	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Chromium	7.49	MG_KG		17.4	3.8	6.3	0.3	Y					0.12	0.601	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Cobalt	0.877	MG_KG		0.414	0.9	35	2.3	Y	Y				0.301	0.752	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Copper	2.43	MG_KG	J	17.1	700	4700	310	Y					0.241	0.601	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	HMX	174	UG_KG	U			5700000	380000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Iron	4610	MG_KG		7210	150	82000	5500	Y					1.8	6.01	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Lead	6.29	MG_KG		27.5	270	800	400	Y					0.0902	0.18	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Magnesium	259	MG_KG	J	904				Y					60.1	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Manganese	17.9	MG_KG		37	65	2600	180	Y					0.18	0.902	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Mercury	0.0368	MG_KG	U	0.161	1	35	2.3						0.0145	0.0368	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Nickel	2.74	MG_KG		3.11	130	2200	150	Y					0.18	0.601	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Perchlorate	11.9	UG_KG	U			82000	5500						5.95	23.8	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	PETN	435	UG_KG	U			160000	12000						217	870	01/25/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Potassium	189	MG_KG	J	359				Y					60.1	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	RDX	217	UG_KG	U			28000	6000						217	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Selenium	0.301	MG_KG	U	1.59	1.5	580	39						0.18	0.601	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Silver	0.12	MG_KG	U	0.354	3.4	580	39						0.0601	0.601	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Sodium	180	MG_KG	U	250									60.1	301	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Tetryl	174	UG_KG	U			160000	12000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Thallium	0.241	MG_KG	U		0.28	1.2	0.078						0.241	0.481	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Vanadium	10.2	MG_KG		17.6	6	580	39	Y					0.301	0.752	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS269-OC-12A	N	Zinc	136	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.301	1.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Aluminum	8880	MG_KG		12800		100000	7700	Y					2.85	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Antimony	0.456	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Arsenic	1.17	MG_KG		1.17	5.8	3	0.67	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Barium	24.3	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Beryllium	0.0742	MG_KG	J	0.195	63	230	16	Y					0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Calcium	304	MG_KG		8470				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Chromium	7.29	MG_KG		17.4	3.8	6.3	0.3	Y					0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Cobalt	0.849	MG_KG		0.414	0.9	35	2.3	Y	Y				0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Copper	2.47	MG_KG	J	17.1	700	4700	310	Y					0.228	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Iron	4470	MG_KG		7210	150	82000	5500	Y					1.71	5.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Lead	6.36	MG_KG		27.5	270	800	400	Y					0.0854	0.171	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Magnesium	254	MG_KG	J	904				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Manganese	18.9	MG_KG		37	65	2600	180	Y					0.171	0.854	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Mercury	0.015	MG_KG	J	0.161	1	35	2.3	Y					0.0132	0.0335	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Nickel	2.6	MG_KG		3.11	130	2200	150	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.92	23.7	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	PETN	370	UG_KG	U			160000	12000						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Potassium	186	MG_KG	J	359				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	RDX	222	UG_KG	U			28000	6000						222	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Selenium	0.285	MG_KG	U	1.59	1.5	580	39						0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.057	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Sodium	171	MG_KG	U	250									57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.228	0.456	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Vanadium	9.7	MG_KG		17.6	6	580	39	Y					0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS270-IC-12A	N	Zinc	141	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.285	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Aluminum	7620	MG_KG		12800		100000	7700	Y					2.93	11.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Antimony	0.468	MG_KG	UJ	1.87	0.9	47	3.1						0.293	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Arsenic	1.08	MG_KG		1.17	5.8	3	0.67	Y					0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Barium	21.7	MG_KG		36.7	580	22000	1500	Y					0.293	2.34	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Beryllium	0.0658	MG_KG	J	0.195	63	230	16	Y					0.0586	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Cadmium	0.0791	MG_KG	J	0.2	3	98	7	Y					0.0586	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Calcium	282	MG_KG	J	8470				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Chromium	6.45	MG_KG		17.4	3.8	6.3	0.3	Y					0.117	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Cobalt	0.765	MG_KG		0.414	0.9	35	2.3	Y	Y				0.293	0.732	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Copper	2.4	MG_KG	J	17.1	700	4700	310	Y					0.234	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Iron	3990	MG_KG		7210	150	82000	5500	Y					1.76	5.86	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Lead	6.6	MG_KG		27.5	270	800	400	Y					0.0878	0.176	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Magnesium	225	MG_KG	J	904				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Manganese	18.3	MG_KG		37	65	2600	180	Y					0.176	0.878	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Mercury	0.0383	MG_KG	U	0.161	1	35	2.3						0.0151	0.0383	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Nickel	2.31	MG_KG		3.11	130	2200	150	Y					0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Perchlorate	12	UG_KG	U			82000	5500						6	24	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	PETN	385	UG_KG	U			160000	12000						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Potassium	164	MG_KG	J	359				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	RDX	192	UG_KG	U			28000	6000						192	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Selenium	0.293	MG_KG	U	1.59	1.5	580	39						0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0586	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Sodium	176	MG_KG	U	250									58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Thallium	0.234	MG_KG	U		0.28	1.2	0.078						0.234	0.468	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Vanadium	8.58	MG_KG		17.6	6	580	39	Y					0.293	0.732	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS271-OC-12A	N	Zinc	177	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.293	1.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	01/25/12	SVOA	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Aluminum	8970	MG_KG		12800		100000	7700	Y					3.05	12.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Antimony	0.488	MG_KG	UJ	1.87	0.9	47	3.1						0.305	0.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.183	0.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Barium	24.7	MG_KG		36.7	580	22000	1500	Y					0.305	2.44	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Beryllium	0.0734	MG_KG	J	0.195	63	230	16	Y					0.061	0.305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Cadmium	0.122	MG_KG	U	0.2	3	98	7						0.061	0.305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Calcium	297	MG_KG	J	8470				Y					61	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Chromium	7.43	MG_KG		17.4	3.8	6.3	0.3	Y					0.122	0.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Cobalt	0.891	MG_KG		0.414	0.9	35	2.3	Y	Y				0.305	0.762	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Copper	2.4	MG_KG	J	17.1	700	4700	310	Y					0.244	0.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Iron	4460	MG_KG		7210	150	82000	5500	Y					1.83	6.1	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Lead	6.27	MG_KG		27.5	270	800	400	Y					0.0915	0.183	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Magnesium	262	MG_KG	J	904				Y					61	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Manganese	19.5	MG_KG		37	65	2600	180	Y					0.183	0.915	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Mercury	0.0392	MG_KG	U	0.161	1	35	2.3						0.0155	0.0392	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Nickel	2.7	MG_KG		3.11	130	2200	150	Y					0.183	0.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Perchlorate	11.9	UG_KG	U			82000	5500						5.94	23.8	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	PETN	417	UG_KG	U			160000	12000						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Potassium	191	MG_KG	J	359				Y					61	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	RDX	167	UG_KG	U			28000	6000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Selenium	0.305	MG_KG	U	1.59	1.5	580	39						0.183	0.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Silver	0.122	MG_KG	U	0.354	3.4	580	39						0.061	0.61	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Sodium	183	MG_KG	U	250									61	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Thallium	0.244	MG_KG	U		0.28	1.2	0.078						0.244	0.488	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Vanadium	9.96	MG_KG		17.6	6	580	39	Y					0.305	0.762	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS272-IC-12A	N	Zinc	142	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.305	1.22	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Aluminum	9150	MG_KG		12800		100000	7700	Y					2.88	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Antimony	0.46	MG_KG	UJ	1.87	0.9	47	3.1						0.288	0.575	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Arsenic	1.24	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.575	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Barium	25.9	MG_KG		36.7	580	22000	1500	Y					0.288	2.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Beryllium	0.0768	MG_KG	J	0.195	63	230	16	Y					0.0575	0.288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Cadmium	0.0758	MG_KG	J	0.2	3	98	7	Y					0.0575	0.288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Calcium	316	MG_KG		8470				Y					57.5	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Chromium	7.49	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.575	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Cobalt	0.898	MG_KG		0.414	0.9	35	2.3	Y	Y				0.288	0.719	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Copper	2.45	MG_KG		17.1	700	4700	310	Y					0.23	0.575	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Iron	4840	MG_KG		7210	150	82000	5500	Y					1.73	5.75	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Lead	6.94	MG_KG		27.5	270	800	400	Y					0.0863	0.173	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Magnesium	262	MG_KG	J	904				Y					57.5	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Manganese	20.3	MG_KG		37	65	2600	180	Y					0.173	0.863	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Mercury	0.0357	MG_KG	U	0.161	1	35	2.3						0.0141	0.0357	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Nickel	2.72	MG_KG		3.11	130	2200	150	Y					0.173	0.575	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Perchlorate	11.9	UG_KG	U			82000	5500						5.95	23.8	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Potassium	190	MG_KG	J	359				Y					57.5	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	RDX	238	UG_KG	U			28000	6000						238	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Selenium	0.288	MG_KG	U	1.59	1.5	580	39						0.173	0.575	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.0575	0.575	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Sodium	173	MG_KG	U	250									57.5	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Thallium	0.23	MG_KG	U		0.28	1.2	0.078						0.173	0.46	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Vanadium	10.2	MG_KG		17.6	6	580	39	Y					0.288	0.719	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS273-OC-12A	N	Zinc	205	MG_KG		28.6	1200	35000	2300	Y	Y				0.288	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Aluminum	8660	MG_KG		12800		100000	7700	Y					2.83	11.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Antimony	0.453	MG_KG	UJ	1.87	0.9	47	3.1						0.283	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Arsenic	1.18	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.17	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Barium	23.5	MG_KG		36.7	580	22000	1500	Y					0.283	2.27	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Beryllium	0.0729	MG_KG	J	0.195	63	230	16	Y					0.0567	0.283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Cadmium	0.0873	MG_KG	J	0.2	3	98	7	Y					0.0567	0.283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Calcium	326	MG_KG		8470				Y					56.7	283	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Chromium	7.23	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.113	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Cobalt	0.864	MG_KG		0.414	0.9	35	2.3	Y	Y				0.283	0.708	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Copper	2.32	MG_KG		17.1	700	4700	310	Y					0.227	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	HMX	200	UG_KG	U			5700000	380000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Iron	4490	MG_KG		7210	150	82000	5500	Y					1.7	5.67	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Lead	6.59	MG_KG		27.5	270	800	400	Y					0.085	0.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Magnesium	254	MG_KG	J	904				Y					56.7	283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Manganese	20.8	MG_KG		37	65	2600	180	Y					0.17	0.85	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Mercury	0.016	MG_KG	J	0.161	1	35	2.3	Y					0.014	0.0355	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Nickel	2.55	MG_KG		3.11	130	2200	150	Y					0.17	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.92	23.7	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	PETN	500	UG_KG	U			160000	12000						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Potassium	190	MG_KG	J	359				Y					56.7	283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	RDX	250	UG_KG	U			28000	6000						250	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Selenium	0.283	MG_KG	U	1.59	1.5	580	39						0.17	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0567	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Sodium	170	MG_KG	U	250									56.7	283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Tetryl	200	UG_KG	U			160000	12000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Thallium	0.227	MG_KG	U		0.28	1.2	0.078						0.17	0.453	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Vanadium	9.74	MG_KG		17.6	6	580	39	Y					0.283	0.708	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS274-IC-12A	N	Zinc	199	MG_KG		28.6	1200	35000	2300	Y	Y				0.283	1.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Aluminum	10100	MG_KG		12800		100000	7700	Y					3.05	12.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Antimony	0.488	MG_KG	UJ	1.87	0.9	47	3.1						0.305	0.611	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Arsenic	1.2	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.183	0.611	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Barium	25.8	MG_KG		36.7	580	22000	1500	Y					0.305	2.44	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Beryllium	0.0666	MG_KG	J	0.195	63	230	16	Y					0.0611	0.305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Cadmium	0.122	MG_KG	U	0.2	3	98	7						0.0611	0.305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Calcium	376	MG_KG		8470				Y					61.1	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Chromium	8.32	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.122	0.611	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Cobalt	0.88	MG_KG		0.414	0.9	35	2.3	Y	Y				0.305	0.763	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Copper	2.31	MG_KG		17.1	700	4700	310	Y					0.244	0.611	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	HMX	200	UG_KG	U			5700000	380000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Iron	4900	MG_KG		7210	150	82000	5500	Y					1.83	6.11	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Lead	7.26	MG_KG		27.5	270	800	400	Y					0.0916	0.183	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Magnesium	285	MG_KG	J	904				Y					61.1	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Manganese	18.2	MG_KG		37	65	2600	180	Y					0.183	0.916	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Mercury	0.0438	MG_KG	U	0.161	1	35	2.3						0.0173	0.0438	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Nickel	2.68	MG_KG		3.11	130	2200	150	Y					0.183	0.611	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Perchlorate	12.4	UG_KG	U			82000	5500						6.2	24.8	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	PETN	500	UG_KG	U			160000	12000						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Potassium	214	MG_KG	J	359				Y					61.1	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	RDX	200	UG_KG	U			28000	6000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Selenium	0.212	MG_KG	J	1.59	1.5	580	39	Y					0.183	0.611	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Silver	0.122	MG_KG	U	0.354	3.4	580	39						0.122	0.611	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Sodium	183	MG_KG	U	250									61.1	305	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Tetryl	200	UG_KG	U			160000	12000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Thallium	0.244	MG_KG	U		0.28	1.2	0.078						0.244	0.488	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Vanadium	11.6	MG_KG		17.6	6	580	39	Y					0.305	0.763	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS275-OC-12A	N	Zinc	145	MG_KG		28.6	1200	35000	2300	Y	Y				0.305	1.22	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Aluminum	9930	MG_KG		12800		100000	7700	Y					2.99	12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Antimony	0.479	MG_KG	UJ	1.87	0.9	47	3.1						0.299	0.599	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.18	0.599	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Barium	25.1	MG_KG		36.7	580	22000	1500	Y					0.299	2.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Beryllium	0.073	MG_KG	J	0.195	63	230	16	Y					0.0599	0.299	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Cadmium	0.108	MG_KG	J	0.2	3	98	7	Y					0.0599	0.299	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Calcium	353	MG_KG		8470				Y					59.9	299	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Chromium	8.29	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.12	0.599	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Cobalt	0.878	MG_KG		0.414	0.9	35	2.3	Y	Y				0.299	0.749	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Copper	3.71	MG_KG		17.1	700	4700	310	Y					0.24	0.599	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Iron	5930	MG_KG		7210	150	82000	5500	Y					1.8	5.99	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Lead	11.9	MG_KG		27.5	270	800	400	Y					0.0898	0.18	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Magnesium	298	MG_KG	J	904				Y					59.9	299	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Manganese	27.1	MG_KG		37	65	2600	180	Y					0.18	0.898	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Mercury	0.0151	MG_KG	J	0.161	1	35	2.3	Y					0.0139	0.0354	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Nickel	2.81	MG_KG		3.11	130	2200	150	Y					0.18	0.599	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.9	23.6	01/25/12	EXPLO	6850	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	PETN	417	UG_KG	U			160000	12000						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Potassium	225	MG_KG	J	359				Y					59.9	299	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	RDX	208	UG_KG	U			28000	6000						208	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Selenium	0.299	MG_KG	U	1.59	1.5	580	39						0.18	0.599	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Silver	0.12	MG_KG	U	0.354	3.4	580	39						0.0599	0.599	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Sodium	180	MG_KG	U	250									59.9	299	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Thallium	0.24	MG_KG	U		0.28	1.2	0.078						0.18	0.479	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Vanadium	11.3	MG_KG		17.6	6	580	39	Y					0.299	0.749	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS276-IC-12A	N	Zinc	259	MG_KG		28.6	1200	35000	2300	Y	Y				0.299	1.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Aluminum	10400	MG_KG		12800		100000	7700	Y					2.86	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Antimony	0.458	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Arsenic	1.35	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Barium	27.8	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Beryllium	0.0808	MG_KG	J	0.195	63	230	16	Y					0.0573	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0573	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Calcium	367	MG_KG		8470				Y					57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Chromium	8.36	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Cobalt	0.878	MG_KG		0.414	0.9	35	2.3	Y	Y				0.286	0.716	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Copper	2.37	MG_KG		17.1	700	4700	310	Y					0.229	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	HMX	200	UG_KG	U			5700000	380000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Iron	5090	MG_KG		7210	150	82000	5500	Y					1.72	5.73	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Lead	6.05	MG_KG		27.5	270	800	400	Y					0.0859	0.172	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Magnesium	310	MG_KG	J	904				Y					57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Manganese	22.2	MG_KG		37	65	2600	180	Y					0.172	0.859	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Mercury	0.0183	MG_KG	J	0.161	1	35	2.3	Y					0.0131	0.0332	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Nickel	2.92	MG_KG		3.11	130	2200	150	Y					0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.87	23.5	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	PETN	500	UG_KG	U			160000	12000						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Potassium	208	MG_KG	J	359				Y					57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	RDX	250	UG_KG	U			28000	6000						250	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Selenium	0.286	MG_KG	U	1.59	1.5	580	39						0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Sodium	172	MG_KG	U	250									57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Tetryl	200	UG_KG	U			160000	12000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.172	0.458	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Vanadium	11.9	MG_KG		17.6	6	580	39	Y					0.286	0.716	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS277-OC-12A	N	Zinc	28.4	MG_KG		28.6	1200	35000	2300	Y					0.286	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Aluminum	9780	MG_KG		12800		100000	7700	Y					2.83	11.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Antimony	0.453	MG_KG	UJ	1.87	0.9	47	3.1						0.283	0.566	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Arsenic	1.31	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.17	0.566	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Barium	27.1	MG_KG		36.7	580	22000	1500	Y					0.283	2.27	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Beryllium	0.092	MG_KG	J	0.195	63	230	16	Y					0.0566	0.283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0566	0.283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Calcium	369	MG_KG		8470				Y					56.6	283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Chromium	8.01	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.113	0.566	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Cobalt	0.858	MG_KG		0.414	0.9	35	2.3	Y	Y				0.283	0.708	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Copper	2.5	MG_KG		17.1	700	4700	310	Y					0.227	0.566	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Iron	4690	MG_KG		7210	150	82000	5500	Y					1.7	5.66	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Lead	5.98	MG_KG		27.5	270	800	400	Y					0.0849	0.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Magnesium	291	MG_KG	J	904				Y					56.6	283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Manganese	22	MG_KG		37	65	2600	180	Y					0.17	0.849	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Mercury	0.0416	MG_KG	U	0.161	1	35	2.3						0.0164	0.0416	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Nickel	2.75	MG_KG		3.11	130	2200	150	Y					0.17	0.566	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.89	23.6	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Potassium	204	MG_KG	J	359				Y					56.6	283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	RDX	248	UG_KG	U			28000	6000						248	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Selenium	0.283	MG_KG	U	1.59	1.5	580	39						0.17	0.566	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.566	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Sodium	170	MG_KG	U	250									56.6	283	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Thallium	0.227	MG_KG	U		0.28	1.2	0.078						0.227	0.453	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Vanadium	11.3	MG_KG		17.6	6	580	39	Y					0.283	0.708	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS278-IC-12A	N	Zinc	49.9	MG_KG		28.6	1200	35000	2300	Y	Y				0.283	1.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	01/25/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Aluminum	9870	MG_KG		12800		100000	7700	Y					2.93	11.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Antimony	0.469	MG_KG	UJ	1.87	0.9	47	3.1						0.293	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Arsenic	1.32	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Barium	27.9	MG_KG		36.7	580	22000	1500	Y					0.293	2.34	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Beryllium	0.102	MG_KG	J	0.195	63	230	16	Y					0.0586	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0586	0.293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Calcium	369	MG_KG		8470				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Chromium	7.81	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.117	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Cobalt	0.822	MG_KG		0.414	0.9	35	2.3	Y	Y				0.293	0.732	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Copper	2.44	MG_KG		17.1	700	4700	310	Y					0.234	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	HMX	174	UG_KG	U			5700000	380000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Iron	4550	MG_KG		7210	150	82000	5500	Y					1.76	5.86	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Lead	6.17	MG_KG		27.5	270	800	400	Y					0.0879	0.176	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Magnesium	291	MG_KG	J	904				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Manganese	22.2	MG_KG		37	65	2600	180	Y					0.176	0.879	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Mercury	0.0152	MG_KG	J	0.161	1	35	2.3	Y					0.0124	0.0315	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Nickel	2.79	MG_KG		3.11	130	2200	150	Y					0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.89	23.6	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	PETN	435	UG_KG	U			160000	12000						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Potassium	201	MG_KG	J	359				Y					58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	RDX	261	UG_KG	U			28000	6000						261	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Selenium	0.293	MG_KG	U	1.59	1.5	580	39						0.176	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.117	0.586	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Sodium	176	MG_KG	U	250									58.6	293	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Tetryl	174	UG_KG	U			160000	12000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Thallium	0.234	MG_KG	U		0.28	1.2	0.078						0.234	0.469	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Vanadium	11	MG_KG		17.6	6	580	39	Y					0.293	0.732	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS279-OC-12A	N	Zinc	21.8	MG_KG		28.6	1200	35000	2300	Y					0.293	1.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	1,3,5-Trinitrobenzene	154	UG_KG	U			3200000	220000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	1,3-Dinitrobenzene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	2,4,6-Trinitrotoluene	154	UG_KG	U			52000	3600						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	2,4-Dinitrotoluene	154	UG_KG	U		1.6	3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	2,6-Dinitrotoluene	154	UG_KG	U			3400	780						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	2-Amino-4,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	2-Nitrotoluene	154	UG_KG	U			15000	3200						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	3-Nitrotoluene	154	UG_KG	U			8200	620						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	4-Amino-2,6-dinitrotoluene	154	UG_KG	U			230000	15000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	4-Nitrotoluene	154	UG_KG	U			140000	25000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Aluminum	10000	MG_KG		12800		100000	7700	Y					2.88	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Antimony	0.461	MG_KG	UJ	1.87	0.9	47	3.1						0.288	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Arsenic	1.32	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Barium	27.1	MG_KG		36.7	580	22000	1500	Y					0.288	2.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Beryllium	0.0986	MG_KG	J	0.195	63	230	16	Y					0.0576	0.288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0576	0.288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Calcium	390	MG_KG		8470				Y					57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Chromium	8.06	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Cobalt	0.853	MG_KG		0.414	0.9	35	2.3	Y	Y				0.288	0.72	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Copper	2.5	MG_KG		17.1	700	4700	310	Y					0.23	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	HMX	154	UG_KG	U			5700000	380000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Iron	4550	MG_KG		7210	150	82000	5500	Y					1.73	5.76	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Lead	5.98	MG_KG		27.5	270	800	400	Y					0.0864	0.173	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Magnesium	295	MG_KG	J	904				Y					57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Manganese	19.9	MG_KG		37	65	2600	180	Y					0.173	0.864	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Mercury	0.0185	MG_KG	J	0.161	1	35	2.3	Y					0.0132	0.0334	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Nickel	2.81	MG_KG		3.11	130	2200	150	Y					0.173	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Nitrobenzene	154	UG_KG	U			22000	5100						76.9	308	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Nitroglycerin	385	UG_KG	U			8200	620						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.9	23.6	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	PETN	385	UG_KG	U			160000	12000						192	769	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Potassium	206	MG_KG	J	359				Y					57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	RDX	192	UG_KG	U			28000	6000						192	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Selenium	0.288	MG_KG	U	1.59	1.5	580	39						0.173	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Sodium	173	MG_KG	U	250									57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Tetryl	154	UG_KG	U			160000	12000						76.9	308	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Thallium	0.23	MG_KG	U		0.28	1.2	0.078						0.23	0.461	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Vanadium	11.2	MG_KG		17.6	6	580	39	Y					0.288	0.72	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS280-IC-12A	N	Zinc	18.1	MG_KG		28.6	1200	35000	2300	Y					0.288	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Aluminum	9720	MG_KG		12800		100000	7700	Y					2.79	11.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Antimony	0.447	MG_KG	UJ	1.87	0.9	47	3.1						0.279	0.559	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Arsenic	1.29	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.168	0.559	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Barium	26.9	MG_KG		36.7	580	22000	1500	Y					0.279	2.23	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Beryllium	0.0958	MG_KG	J	0.195	63	230	16	Y					0.0559	0.279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0559	0.279	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Calcium	363	MG_KG		8470				Y					55.9	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Chromium	7.8	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.112	0.559	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Cobalt	0.832	MG_KG		0.414	0.9	35	2.3	Y	Y				0.279	0.698	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Copper	2.43	MG_KG		17.1	700	4700	310	Y					0.223	0.559	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Iron	4620	MG_KG		7210	150	82000	5500	Y					1.68	5.59	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Lead	5.96	MG_KG		27.5	270	800	400	Y					0.0838	0.168	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Magnesium	298	MG_KG	J	904				Y					55.9	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Manganese	21.9	MG_KG		37	65	2600	180	Y					0.168	0.838	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Mercury	0.0153	MG_KG	J	0.161	1	35	2.3	Y					0.0143	0.0363	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Nickel	2.8	MG_KG		3.11	130	2200	150	Y					0.168	0.559	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.86	23.5	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Potassium	202	MG_KG	J	359				Y					55.9	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	RDX	238	UG_KG	U			28000	6000						238	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Selenium	0.279	MG_KG	U	1.59	1.5	580	39						0.168	0.559	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.112	0.559	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Sodium	168	MG_KG	U	250									55.9	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Thallium	0.279	MG_KG	U		0.28	1.2	0.078						0.279	0.447	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Vanadium	10.9	MG_KG		17.6	6	580	39	Y					0.279	0.698	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS281-OC-12A	N	Zinc	38.9	MG_KG		28.6	1200	35000	2300	Y	Y				0.279	1.12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Aluminum	11000	MG_KG		12800		100000	7700	Y					2.81	11.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Antimony	0.45	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Arsenic	1.44	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.169	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Barium	29.7	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Beryllium	0.104	MG_KG	J	0.195	63	230	16	Y					0.0563	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0563	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Calcium	407	MG_KG		8470				Y					56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Chromium	8.68	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.113	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Cobalt	0.892	MG_KG		0.414	0.9	35	2.3	Y	Y				0.281	0.704	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Copper	2.77	MG_KG		17.1	700	4700	310	Y					0.225	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Iron	5510	MG_KG		7210	150	82000	5500	Y					1.69	5.63	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Lead	6.15	MG_KG		27.5	270	800	400	Y					0.0844	0.169	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Magnesium	328	MG_KG	J	904				Y					56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Manganese	21.4	MG_KG		37	65	2600	180	Y					0.169	0.844	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Mercury	0.039	MG_KG	U	0.161	1	35	2.3						0.0154	0.039	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Nickel	3.13	MG_KG		3.11	130	2200	150	Y	Y				0.169	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.91	23.6	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Potassium	214	MG_KG	J	359				Y					56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	RDX	238	UG_KG	U			28000	6000						238	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Selenium	0.281	MG_KG	U	1.59	1.5	580	39						0.169	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Sodium	169	MG_KG	U	250									56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Thallium	0.281	MG_KG	U		0.28	1.2	0.078						0.281	0.45	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Vanadium	12.7	MG_KG		17.6	6	580	39	Y					0.281	0.704	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS282-IC-12A	N	Zinc	22.2	MG_KG		28.6	1200	35000	2300	Y					0.281	1.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	1,3,5-Trinitrobenzene	138	UG_KG	U			3200000	220000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	1,3-Dinitrobenzene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	2,4,6-Trinitrotoluene	138	UG_KG	U			52000	3600						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	2,4-Dinitrotoluene	138	UG_KG	U		1.6	3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	2,6-Dinitrotoluene	138	UG_KG	U			3400	780						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	2-Amino-4,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	2-Nitrotoluene	138	UG_KG	U			15000	3200						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	3-Nitrotoluene	138	UG_KG	U			8200	620						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	4-Amino-2,6-dinitrotoluene	138	UG_KG	U			230000	15000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	4-Nitrotoluene	138	UG_KG	U			140000	25000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Aluminum	10600	MG_KG		12800		100000	7700	Y					2.85	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Antimony	0.456	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Arsenic	1.32	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Barium	28	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Beryllium	0.101	MG_KG	J	0.195	63	230	16	Y					0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Calcium	440	MG_KG		8470				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Chromium	8.92	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Cobalt	0.887	MG_KG		0.414	0.9	35	2.3	Y	Y				0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Copper	2.64	MG_KG		17.1	700	4700	310	Y					0.228	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	HMX	138	UG_KG	U			5700000	380000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Iron	4820	MG_KG		7210	150	82000	5500	Y					1.71	5.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Lead	6.22	MG_KG		27.5	270	800	400	Y					0.0855	0.171	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Magnesium	326	MG_KG	J	904				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Manganese	22.8	MG_KG		37	65	2600	180	Y					0.171	0.855	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Mercury	0.0162	MG_KG	J	0.161	1	35	2.3	Y					0.0139	0.0352	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Nickel	2.9	MG_KG		3.11	130	2200	150	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Nitrobenzene	138	UG_KG	U			22000	5100						69	276	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Nitroglycerin	345	UG_KG	U			8200	620						172	690	01/25/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.87	23.5	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	PETN	345	UG_KG	U			160000	12000						172	690	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Potassium	241	MG_KG	J	359				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	RDX	138	UG_KG	U			28000	6000						138	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Selenium	0.285	MG_KG	U	1.59	1.5	580	39						0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Sodium	171	MG_KG	U	250									57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Tetryl	138	UG_KG	U			160000	12000						69	276	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.228	0.456	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Vanadium	12.2	MG_KG		17.6	6	580	39	Y					0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS283-OC-12A	N	Zinc	38.7	MG_KG		28.6	1200	35000	2300	Y	Y				0.285	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Aluminum	9980	MG_KG		12800		100000	7700	Y					2.79	11.1	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Antimony	0.446	MG_KG	UJ	1.87	0.9	47	3.1						0.279	0.557	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Arsenic	1.33	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.167	0.557	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Barium	27.4	MG_KG		36.7	580	22000	1500	Y					0.279	2.23	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Beryllium	0.09	MG_KG	J	0.195	63	230	16	Y					0.0557	0.279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0557	0.279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Calcium	368	MG_KG		8470				Y					55.7	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Chromium	8.01	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.111	0.557	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Cobalt	0.865	MG_KG		0.414	0.9	35	2.3	Y	Y				0.279	0.696	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Copper	2.33	MG_KG		17.1	700	4700	310	Y					0.223	0.557	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Iron	4630	MG_KG		7210	150	82000	5500	Y					1.67	5.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Lead	6.1	MG_KG		27.5	270	800	400	Y					0.0836	0.167	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Magnesium	304	MG_KG	J	904				Y					55.7	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Manganese	21.7	MG_KG		37	65	2600	180	Y					0.167	0.836	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Mercury	0.0165	MG_KG	J	0.161	1	35	2.3	Y					0.0158	0.0401	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Nickel	2.85	MG_KG		3.11	130	2200	150	Y					0.167	0.557	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.88	23.5	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	PETN	357	UG_KG	U			160000	12000						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Potassium	209	MG_KG	J	359				Y					55.7	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	RDX	250	UG_KG	U			28000	6000						250	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Selenium	0.279	MG_KG	U	1.59	1.5	580	39						0.167	0.557	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.111	0.557	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Sodium	167	MG_KG	U	250									55.7	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Thallium	0.223	MG_KG	U		0.28	1.2	0.078						0.223	0.446	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Vanadium	11.1	MG_KG		17.6	6	580	39	Y					0.279	0.696	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS284-IC-12A	N	Zinc	41.6	MG_KG		28.6	1200	35000	2300	Y	Y				0.279	1.11	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Aluminum	8700	MG_KG		12800		100000	7700	Y					2.86	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Antimony	0.458	MG_KG	UJ	1.87	0.9	47	3.1						0.286	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Barium	23.9	MG_KG		36.7	580	22000	1500	Y					0.286	2.29	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Beryllium	0.0835	MG_KG	J	0.195	63	230	16	Y					0.0573	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0573	0.286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Calcium	320	MG_KG		8470				Y					57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Chromium	7.15	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Cobalt	0.774	MG_KG		0.414	0.9	35	2.3	Y	Y				0.286	0.716	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Copper	2.34	MG_KG		17.1	700	4700	310	Y					0.229	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	HMX	174	UG_KG	U			5700000	380000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Iron	4320	MG_KG		7210	150	82000	5500	Y					1.72	5.73	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Lead	6.44	MG_KG		27.5	270	800	400	Y					0.0859	0.172	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Magnesium	272	MG_KG	J	904				Y					57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Manganese	20.8	MG_KG		37	65	2600	180	Y					0.172	0.859	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Mercury	0.0141	MG_KG	J	0.161	1	35	2.3	Y					0.014	0.0356	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Nickel	2.53	MG_KG		3.11	130	2200	150	Y					0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.76	23	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	PETN	435	UG_KG	U			160000	12000						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Potassium	192	MG_KG	J	359				Y					57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	RDX	261	UG_KG	U			28000	6000						261	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Selenium	0.286	MG_KG	U	1.59	1.5	580	39						0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.0573	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Sodium	172	MG_KG	U	250									57.3	286	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Tetryl	174	UG_KG	U			160000	12000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.172	0.458	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Vanadium	9.87	MG_KG		17.6	6	580	39	Y					0.286	0.716	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS285-OC-12A	N	Zinc	100	MG_KG		28.6	1200	35000	2300	Y	Y				0.286	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	1,3-Dinitrobenzene	168	UG_KG	J			8200	620	Y					90.9	364	01/25/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	3-Nitrotoluene	172	UG_KG	J			8200	620	Y					90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Aluminum	8790	MG_KG		12800		100000	7700	Y					2.97	11.9	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Antimony	0.475	MG_KG	UJ	1.87	0.9	47	3.1						0.297	0.593	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.178	0.593	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Barium	24.4	MG_KG		36.7	580	22000	1500	Y					0.297	2.37	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Beryllium	0.0882	MG_KG	J	0.195	63	230	16	Y					0.0593	0.297	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Cadmium	0.0655	MG_KG	J	0.2	3	98	7	Y					0.0593	0.297	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Calcium	321	MG_KG		8470				Y					59.3	297	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Chromium	7.2	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.119	0.593	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Cobalt	0.76	MG_KG		0.414	0.9	35	2.3	Y	Y				0.297	0.742	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Copper	3.3	MG_KG		17.1	700	4700	310	Y					0.237	0.593	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Iron	4890	MG_KG		7210	150	82000	5500	Y					1.78	5.93	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Lead	6.34	MG_KG		27.5	270	800	400	Y					0.089	0.178	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Magnesium	277	MG_KG	J	904				Y					59.3	297	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Manganese	20.5	MG_KG		37	65	2600	180	Y					0.178	0.89	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Mercury	0.0159	MG_KG	J	0.161	1	35	2.3	Y					0.011	0.0279	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Nickel	2.54	MG_KG		3.11	130	2200	150	Y					0.178	0.593	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Perchlorate	11.6	UG_KG	U			82000	5500						5.78	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	PETN	455	UG_KG	U			160000	12000						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Potassium	196	MG_KG	J	359				Y					59.3	297	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	RDX	182	UG_KG	U			28000	6000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Selenium	0.297	MG_KG	U	1.59	1.5	580	39						0.178	0.593	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Silver	0.119	MG_KG	U	0.354	3.4	580	39						0.119	0.593	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Sodium	178	MG_KG	U	250									59.3	297	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Thallium	0.237	MG_KG	U		0.28	1.2	0.078						0.237	0.475	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Vanadium	9.92	MG_KG		17.6	6	580	39	Y					0.297	0.742	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286D-IC-12A	FD	Zinc	154	MG_KG		28.6	1200	35000	2300	Y	Y				0.297	1.19	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Aluminum	9690	MG_KG		12800		100000	7700	Y					2.94	11.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Antimony	0.47	MG_KG	UJ	1.87	0.9	47	3.1						0.294	0.587	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Arsenic	1.29	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.176	0.587	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Barium	26.2	MG_KG		36.7	580	22000	1500	Y					0.294	2.35	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Beryllium	0.0915	MG_KG	J	0.195	63	230	16	Y					0.0587	0.294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0587	0.294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Calcium	356	MG_KG		8470				Y					58.7	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Chromium	7.61	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.117	0.587	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Cobalt	0.845	MG_KG		0.414	0.9	35	2.3	Y	Y				0.294	0.734	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Copper	2.34	MG_KG		17.1	700	4700	310	Y					0.235	0.587	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Iron	4870	MG_KG		7210	150	82000	5500	Y					1.76	5.87	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Lead	6.39	MG_KG		27.5	270	800	400	Y					0.0881	0.176	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Magnesium	299	MG_KG	J	904				Y					58.7	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Manganese	21.6	MG_KG		37	65	2600	180	Y					0.176	0.881	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Mercury	0.015	MG_KG	J	0.161	1	35	2.3	Y					0.0115	0.0292	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Nickel	2.8	MG_KG		3.11	130	2200	150	Y					0.176	0.587	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.76	23	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Potassium	202	MG_KG	J	359				Y					58.7	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	RDX	333	UG_KG	U			28000	6000						333	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Selenium	0.294	MG_KG	U	1.59	1.5	580	39						0.176	0.587	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.117	0.587	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Sodium	176	MG_KG	U	250									58.7	294	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Thallium	0.235	MG_KG	U		0.28	1.2	0.078						0.235	0.47	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Vanadium	10.9	MG_KG		17.6	6	580	39	Y					0.294	0.734	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS286-IC-12A	N	Zinc	95.4	MG_KG		28.6	1200	35000	2300	Y	Y				0.294	1.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Aluminum	9210	MG_KG		12800		100000	7700	Y					2.74	11	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Antimony	0.438	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Arsenic	1.25	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.164	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Barium	24.4	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Beryllium	0.0892	MG_KG	J	0.195	63	230	16	Y					0.0548	0.274	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0548	0.274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Calcium	342	MG_KG		8470				Y					54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Chromium	7.53	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.11	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Cobalt	0.803	MG_KG		0.414	0.9	35	2.3	Y	Y				0.274	0.685	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Copper	2.37	MG_KG		17.1	700	4700	310	Y					0.219	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	HMX	174	UG_KG	U			5700000	380000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Iron	4550	MG_KG		7210	150	82000	5500	Y					1.64	5.48	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Lead	6.21	MG_KG		27.5	270	800	400	Y					0.0822	0.164	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Magnesium	294	MG_KG	J	904				Y					54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Manganese	25.7	MG_KG		37	65	2600	180	Y					0.164	0.822	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Mercury	0.0347	MG_KG	U	0.161	1	35	2.3						0.0137	0.0347	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Nickel	2.64	MG_KG		3.11	130	2200	150	Y					0.164	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.78	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	PETN	435	UG_KG	U			160000	12000						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Potassium	207	MG_KG	J	359				Y					54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	RDX	174	UG_KG	U			28000	6000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Selenium	0.274	MG_KG	U	1.59	1.5	580	39						0.164	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Sodium	164	MG_KG	U	250									54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Tetryl	136	UG_KG	J			160000	12000	Y					87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Thallium	0.219	MG_KG	U		0.28	1.2	0.078						0.219	0.438	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Vanadium	10.5	MG_KG		17.6	6	580	39	Y					0.274	0.685	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS287-OC-12A	N	Zinc	95.2	MG_KG		28.6	1200	35000	2300	Y	Y				0.274	1.1	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Aluminum	9760	MG_KG		12800		100000	7700	Y					2.74	11	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Antimony	0.439	MG_KG	UJ	1.87	0.9	47	3.1						0.274	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.165	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Barium	26.2	MG_KG		36.7	580	22000	1500	Y					0.274	2.19	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Beryllium	0.0868	MG_KG	J	0.195	63	230	16	Y					0.0548	0.274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0548	0.274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Calcium	331	MG_KG		8470				Y					54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Chromium	7.93	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.11	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Cobalt	0.958	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.274	0.686	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Copper	2.32	MG_KG		17.1	700	4700	310	Y					0.219	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Iron	4830	MG_KG		7210	150	82000	5500	Y					1.65	5.48	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Lead	6.35	MG_KG		27.5	270	800	400	Y					0.0823	0.165	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Magnesium	306	MG_KG	J	904				Y					54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Manganese	36.8	MG_KG		37	65	2600	180	Y					0.165	0.823	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Mercury	0.014	MG_KG	J	0.161	1	35	2.3	Y					0.0137	0.0347	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Nickel	2.76	MG_KG		3.11	130	2200	150	Y					0.165	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.79	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	PETN	417	UG_KG	U			160000	12000						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Potassium	214	MG_KG	J	359				Y					54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	RDX	208	UG_KG	U			28000	6000						208	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Selenium	0.274	MG_KG	U	1.59	1.5	580	39						0.165	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.548	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Sodium	165	MG_KG	U	250									54.8	274	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Thallium	0.219	MG_KG	U		0.28	1.2	0.078						0.219	0.439	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Vanadium	11.1	MG_KG		17.6	6	580	39	Y					0.274	0.686	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS288-IC-12A	N	Zinc	99.3	MG_KG		28.6	1200	35000	2300	Y	Y				0.274	1.1	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Aluminum	9070	MG_KG		12800		100000	7700	Y					2.87	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Antimony	0.459	MG_KG	UJ	1.87	0.9	47	3.1						0.287	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Barium	24.4	MG_KG		36.7	580	22000	1500	Y					0.287	2.29	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Beryllium	0.0851	MG_KG	J	0.195	63	230	16	Y					0.0574	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0574	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Calcium	337	MG_KG		8470				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Chromium	7.31	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Cobalt	0.812	MG_KG		0.414	0.9	35	2.3	Y	Y				0.287	0.717	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Copper	2.3	MG_KG		17.1	700	4700	310	Y					0.229	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	HMX	174	UG_KG	U			5700000	380000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Iron	4500	MG_KG		7210	150	82000	5500	Y					1.72	5.74	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Lead	6.73	MG_KG		27.5	270	800	400	Y					0.086	0.172	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Magnesium	287	MG_KG	J	904				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Manganese	33.1	MG_KG		37	65	2600	180	Y					0.172	0.86	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Mercury	0.0382	MG_KG	U	0.161	1	35	2.3						0.0151	0.0382	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Nickel	2.58	MG_KG		3.11	130	2200	150	Y					0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	01/25/12	SVOA	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.79	23.2	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	PETN	435	UG_KG	U			160000	12000						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Potassium	201	MG_KG	J	359				Y					57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	RDX	217	UG_KG	U			28000	6000						217	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Selenium	0.287	MG_KG	U	1.59	1.5	580	39						0.172	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.0574	0.574	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Sodium	172	MG_KG	U	250									57.4	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Tetryl	174	UG_KG	U			160000	12000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Thallium	0.229	MG_KG	U		0.28	1.2	0.078						0.229	0.459	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Vanadium	10.1	MG_KG		17.6	6	580	39	Y					0.287	0.717	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS289-OC-12A	N	Zinc	84.7	MG_KG		28.6	1200	35000	2300	Y	Y				0.287	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Aluminum	9760	MG_KG		12800		100000	7700	Y					2.81	11.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Antimony	0.449	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.168	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Barium	25.6	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Beryllium	0.0793	MG_KG	J	0.195	63	230	16	Y					0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Calcium	349	MG_KG		8470				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Chromium	7.89	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.112	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Cobalt	0.859	MG_KG		0.414	0.9	35	2.3	Y	Y				0.281	0.702	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Copper	2.26	MG_KG		17.1	700	4700	310	Y					0.225	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Iron	4890	MG_KG		7210	150	82000	5500	Y					1.68	5.62	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Lead	5.97	MG_KG		27.5	270	800	400	Y					0.0842	0.168	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Magnesium	294	MG_KG	J	904				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Manganese	18.1	MG_KG		37	65	2600	180	Y					0.168	0.842	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Mercury	0.0144	MG_KG	J	0.161	1	35	2.3	Y					0.0123	0.0311	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Nickel	2.83	MG_KG		3.11	130	2200	150	Y					0.168	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.81	23.3	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	PETN	455	UG_KG	U			160000	12000						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Potassium	206	MG_KG	J	359				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	RDX	273	UG_KG	U			28000	6000						273	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Selenium	0.281	MG_KG	U	1.59	1.5	580	39						0.168	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.112	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Sodium	168	MG_KG	U	250									56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Thallium	0.225	MG_KG	U		0.28	1.2	0.078						0.225	0.449	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Vanadium	11	MG_KG		17.6	6	580	39	Y					0.281	0.702	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS290-IC-12A	N	Zinc	92.2	MG_KG		28.6	1200	35000	2300	Y	Y				0.281	1.12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Aluminum	9290	MG_KG		12800		100000	7700	Y					2.75	11	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Antimony	0.439	MG_KG	UJ	1.87	0.9	47	3.1						0.275	0.549	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.165	0.549	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Barium	24.6	MG_KG		36.7	580	22000	1500	Y					0.275	2.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Beryllium	0.0811	MG_KG	J	0.195	63	230	16	Y					0.0549	0.275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Cadmium	0.11	MG_KG	U	0.2	3	98	7						0.0549	0.275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Calcium	357	MG_KG		8470				Y					54.9	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Chromium	7.59	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.11	0.549	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Cobalt	0.82	MG_KG		0.414	0.9	35	2.3	Y	Y				0.275	0.687	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Copper	2.15	MG_KG		17.1	700	4700	310	Y					0.22	0.549	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Iron	4340	MG_KG		7210	150	82000	5500	Y					1.65	5.49	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Lead	5.78	MG_KG		27.5	270	800	400	Y					0.0824	0.165	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Magnesium	290	MG_KG	J	904				Y					54.9	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Manganese	18.1	MG_KG		37	65	2600	180	Y					0.165	0.824	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Mercury	0.0133	MG_KG	J	0.161	1	35	2.3	Y					0.0129	0.0326	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Nickel	2.63	MG_KG		3.11	130	2200	150	Y					0.165	0.549	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Perchlorate	11.5	UG_KG	U			82000	5500						5.77	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	PETN	370	UG_KG	U			160000	12000						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Potassium	207	MG_KG	J	359				Y					54.9	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	RDX	185	UG_KG	U			28000	6000						185	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Selenium	0.275	MG_KG	U	1.59	1.5	580	39						0.165	0.549	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Silver	0.11	MG_KG	U	0.354	3.4	580	39						0.11	0.549	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Sodium	165	MG_KG	U	250									54.9	275	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Thallium	0.275	MG_KG	U		0.28	1.2	0.078						0.275	0.439	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Vanadium	10.3	MG_KG		17.6	6	580	39	Y					0.275	0.687	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS291-OC-12A	N	Zinc	96.5	MG_KG		28.6	1200	35000	2300	Y	Y				0.275	1.1	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	1,3,5-Trinitrobenzene	148	UG_KG	U			3200000	220000						74.1	296	01/25/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	1,3-Dinitrobenzene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	2,4,6-Trinitrotoluene	148	UG_KG	U			52000	3600						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	2,4-Dinitrotoluene	148	UG_KG	U		1.6	3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	2,6-Dinitrotoluene	148	UG_KG	U			3400	780						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	2-Amino-4,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	2-Nitrotoluene	148	UG_KG	U			15000	3200						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	3-Nitrotoluene	148	UG_KG	U			8200	620						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	4-Amino-2,6-dinitrotoluene	148	UG_KG	U			230000	15000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	4-Nitrotoluene	148	UG_KG	U			140000	25000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Aluminum	9930	MG_KG		12800		100000	7700	Y					2.85	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Antimony	0.456	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Arsenic	1.26	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Barium	26.2	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Beryllium	0.0861	MG_KG	J	0.195	63	230	16	Y					0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Calcium	344	MG_KG	J	8470				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Chromium	8.1	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Cobalt	0.9	MG_KG		0.414	0.9	35	2.3	Y	Y				0.285	0.713	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Copper	2.4	MG_KG	J	17.1	700	4700	310	Y					0.228	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	HMX	148	UG_KG	U			5700000	380000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Iron	4930	MG_KG		7210	150	82000	5500	Y					1.71	5.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Lead	6.3	MG_KG		27.5	270	800	400	Y					0.0855	0.171	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Magnesium	314	MG_KG	J	904				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Manganese	22.3	MG_KG		37	65	2600	180	Y					0.171	0.855	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Mercury	0.0196	MG_KG	J	0.161	1	35	2.3	Y					0.0129	0.0327	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Nickel	2.9	MG_KG		3.11	130	2200	150	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Nitrobenzene	148	UG_KG	U			22000	5100						74.1	296	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Nitroglycerin	370	UG_KG	U			8200	620						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.79	23.1	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	PETN	370	UG_KG	U			160000	12000						185	741	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Potassium	222	MG_KG	J	359				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	RDX	185	UG_KG	U			28000	6000						185	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Selenium	0.285	MG_KG	U	1.59	1.5	580	39						0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Sodium	171	MG_KG	U	250									57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Tetryl	148	UG_KG	U			160000	12000						74.1	296	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.228	0.456	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Vanadium	11.3	MG_KG		17.6	6	580	39	Y					0.285	0.713	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS292-IC-12A	N	Zinc	129	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.285	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Aluminum	9540	MG_KG		12800		100000	7700	Y					2.81	11.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Antimony	0.45	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.169	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Barium	25.1	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Beryllium	0.0828	MG_KG	J	0.195	63	230	16	Y					0.0563	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0563	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Calcium	340	MG_KG	J	8470				Y					56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Chromium	7.87	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.113	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Cobalt	0.82	MG_KG		0.414	0.9	35	2.3	Y	Y				0.281	0.703	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Copper	2.19	MG_KG	J	17.1	700	4700	310	Y					0.225	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Iron	4380	MG_KG		7210	150	82000	5500	Y					1.69	5.63	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Lead	5.78	MG_KG		27.5	270	800	400	Y					0.0844	0.169	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Magnesium	292	MG_KG	J	904				Y					56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Manganese	19.4	MG_KG		37	65	2600	180	Y					0.169	0.844	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Mercury	0.0164	MG_KG	J	0.161	1	35	2.3	Y					0.013	0.0329	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Nickel	2.69	MG_KG		3.11	130	2200	150	Y					0.169	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.82	23.3	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	PETN	357	UG_KG	U			160000	12000						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Potassium	213	MG_KG	J	359				Y					56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	RDX	214	UG_KG	U			28000	6000						214	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Selenium	0.281	MG_KG	U	1.59	1.5	580	39						0.169	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.113	0.563	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Sodium	169	MG_KG	U	250									56.3	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Thallium	0.281	MG_KG	U		0.28	1.2	0.078						0.281	0.45	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Vanadium	10.8	MG_KG		17.6	6	580	39	Y					0.281	0.703	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS293-OC-12A	N	Zinc	47	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.281	1.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Aluminum	9170	MG_KG		12800		100000	7700	Y					2.87	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Antimony	0.459	MG_KG	UJ	1.87	0.9	47	3.1						0.287	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Barium	25.1	MG_KG		36.7	580	22000	1500	Y					0.287	2.29	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Beryllium	0.085	MG_KG	J	0.195	63	230	16	Y					0.0573	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0573	0.287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Calcium	354	MG_KG	J	8470				Y					57.3	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Chromium	7.34	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Cobalt	0.802	MG_KG		0.414	0.9	35	2.3	Y	Y				0.287	0.716	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Copper	2.63	MG_KG	J	17.1	700	4700	310	Y					0.229	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Iron	4600	MG_KG		7210	150	82000	5500	Y					1.72	5.73	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Lead	5.63	MG_KG		27.5	270	800	400	Y					0.086	0.172	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Magnesium	270	MG_KG	J	904				Y					57.3	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Manganese	22.4	MG_KG		37	65	2600	180	Y					0.172	0.86	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Mercury	0.0386	MG_KG	U	0.161	1	35	2.3						0.0152	0.0386	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Nickel	2.57	MG_KG		3.11	130	2200	150	Y					0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.85	23.4	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Potassium	189	MG_KG	J	359				Y					57.3	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	RDX	238	UG_KG	U			28000	6000						238	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Selenium	0.287	MG_KG	U	1.59	1.5	580	39						0.172	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.573	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Sodium	172	MG_KG	U	250									57.3	287	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Thallium	0.287	MG_KG	U		0.28	1.2	0.078						0.287	0.459	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Vanadium	10.3	MG_KG		17.6	6	580	39	Y					0.287	0.716	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS294-IC-12A	N	Zinc	65.3	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.287	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Aluminum	10000	MG_KG		12800		100000	7700	Y					2.91	11.6	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Antimony	0.466	MG_KG	UJ	1.87	0.9	47	3.1						0.291	0.582	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Arsenic	1.2	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.175	0.582	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Barium	25.9	MG_KG		36.7	580	22000	1500	Y					0.291	2.33	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Beryllium	0.0761	MG_KG	J	0.195	63	230	16	Y					0.0582	0.291	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Cadmium	0.116	MG_KG	U	0.2	3	98	7						0.0582	0.291	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Calcium	401	MG_KG	J	8470				Y					58.2	291	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Chromium	8.13	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.116	0.582	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Cobalt	0.83	MG_KG		0.414	0.9	35	2.3	Y	Y				0.291	0.728	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Copper	2.22	MG_KG	J	17.1	700	4700	310	Y					0.233	0.582	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Iron	4830	MG_KG		7210	150	82000	5500	Y					1.75	5.82	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Lead	5.72	MG_KG		27.5	270	800	400	Y					0.0873	0.175	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Magnesium	295	MG_KG	J	904				Y					58.2	291	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Manganese	18	MG_KG		37	65	2600	180	Y					0.175	0.873	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Mercury	0.0168	MG_KG	J	0.161	1	35	2.3	Y					0.0139	0.0353	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Nickel	2.71	MG_KG		3.11	130	2200	150	Y					0.175	0.582	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Perchlorate	11.8	UG_KG	U			82000	5500						5.88	23.5	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Potassium	212	MG_KG	J	359				Y					58.2	291	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	RDX	333	UG_KG	U			28000	6000						333	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Selenium	0.291	MG_KG	U	1.59	1.5	580	39						0.175	0.582	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Silver	0.116	MG_KG	U	0.354	3.4	580	39						0.0582	0.582	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Sodium	175	MG_KG	U	250									58.2	291	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Thallium	0.233	MG_KG	U		0.28	1.2	0.078						0.233	0.466	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Vanadium	11.4	MG_KG		17.6	6	580	39	Y					0.291	0.728	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS295-OC-12A	N	Zinc	54.2	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.291	1.16	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Aluminum	9360	MG_KG		12800		100000	7700	Y					2.88	11.5	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Antimony	0.461	MG_KG	UJ	1.87	0.9	47	3.1						0.288	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Arsenic	1.23	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.173	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Barium	24.8	MG_KG		36.7	580	22000	1500	Y					0.288	2.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Beryllium	0.0827	MG_KG	J	0.195	63	230	16	Y					0.0576	0.288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Cadmium	0.115	MG_KG	U	0.2	3	98	7						0.0576	0.288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Calcium	352	MG_KG	J	8470				Y					57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Chromium	7.6	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.115	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Cobalt	0.816	MG_KG		0.414	0.9	35	2.3	Y	Y				0.288	0.72	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Copper	2.21	MG_KG	J	17.1	700	4700	310	Y					0.23	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Iron	4510	MG_KG		7210	150	82000	5500	Y					1.73	5.76	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Lead	5.68	MG_KG		27.5	270	800	400	Y					0.0864	0.173	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Magnesium	279	MG_KG	J	904				Y					57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Manganese	19.4	MG_KG		37	65	2600	180	Y					0.173	0.864	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Mercury	0.0137	MG_KG	J	0.161	1	35	2.3	Y					0.0133	0.0339	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Nickel	2.58	MG_KG		3.11	130	2200	150	Y					0.173	0.576	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Perchlorate	11.6	UG_KG	U			82000	5500						5.82	23.3	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Potassium	197	MG_KG	J	359				Y					57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	RDX	286	UG_KG	U			28000	6000						286	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Selenium	0.288	MG_KG	U	1.59	1.5	580	39						0.173	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Silver	0.115	MG_KG	U	0.354	3.4	580	39						0.115	0.576	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Sodium	173	MG_KG	U	250									57.6	288	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Thallium	0.23	MG_KG	U		0.28	1.2	0.078						0.23	0.461	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Vanadium	11	MG_KG		17.6	6	580	39	Y					0.288	0.72	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS296-IC-12A	N	Zinc	31.3	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.288	1.15	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Aluminum	8570	MG_KG		12800		100000	7700	Y					2.79	11.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Antimony	0.446	MG_KG	UJ	1.87	0.9	47	3.1						0.279	0.558	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.167	0.558	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Barium	24.2	MG_KG		36.7	580	22000	1500	Y					0.279	2.23	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Beryllium	0.0848	MG_KG	J	0.195	63	230	16	Y					0.0558	0.279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Cadmium	0.112	MG_KG	U	0.2	3	98	7						0.0558	0.279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Calcium	311	MG_KG	J	8470				Y					55.8	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Chromium	6.88	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.112	0.558	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Cobalt	0.739	MG_KG		0.414	0.9	35	2.3	Y	Y				0.279	0.697	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Copper	2.24	MG_KG	J	17.1	700	4700	310	Y					0.223	0.558	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Iron	4090	MG_KG		7210	150	82000	5500	Y					1.67	5.58	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Lead	5.53	MG_KG		27.5	270	800	400	Y					0.0837	0.167	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Magnesium	252	MG_KG	J	904				Y					55.8	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Manganese	20.5	MG_KG		37	65	2600	180	Y					0.167	0.837	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Mercury	0.0362	MG_KG	U	0.161	1	35	2.3						0.0143	0.0362	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Nickel	2.39	MG_KG		3.11	130	2200	150	Y					0.167	0.558	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.86	23.4	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	PETN	455	UG_KG	U			160000	12000						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Potassium	179	MG_KG	J	359				Y					55.8	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	RDX	273	UG_KG	U			28000	6000						273	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Selenium	0.279	MG_KG	U	1.59	1.5	580	39						0.167	0.558	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.112	0.558	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Sodium	167	MG_KG	U	250									55.8	279	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Thallium	0.223	MG_KG	U		0.28	1.2	0.078						0.167	0.446	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Vanadium	9.56	MG_KG		17.6	6	580	39	Y					0.279	0.697	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS297-OC-12A	N	Zinc	30.1	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.279	1.12	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Aluminum	9610	MG_KG		12800		100000	7700	Y					2.77	11.1	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Antimony	0.443	MG_KG	UJ	1.87	0.9	47	3.1						0.277	0.554	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Arsenic	1.22	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.166	0.554	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Barium	26.2	MG_KG		36.7	580	22000	1500	Y					0.277	2.22	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Beryllium	0.0789	MG_KG	J	0.195	63	230	16	Y					0.0554	0.277	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Cadmium	0.111	MG_KG	U	0.2	3	98	7						0.0554	0.277	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Calcium	369	MG_KG	J	8470				Y					55.4	277	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Chromium	7.73	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.111	0.554	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Cobalt	0.92	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.277	0.693	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Copper	2	MG_KG	J	17.1	700	4700	310	Y					0.222	0.554	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	HMX	174	UG_KG	U			5700000	380000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Iron	4670	MG_KG		7210	150	82000	5500	Y					1.66	5.54	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Lead	5.51	MG_KG		27.5	270	800	400	Y					0.0831	0.166	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Magnesium	276	MG_KG	J	904				Y					55.4	277	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Manganese	16.4	MG_KG		37	65	2600	180	Y					0.166	0.831	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Mercury	0.0386	MG_KG	U	0.161	1	35	2.3						0.0152	0.0386	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Nickel	2.78	MG_KG		3.11	130	2200	150	Y					0.166	0.554	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.85	23.4	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	PETN	435	UG_KG	U			160000	12000						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Potassium	201	MG_KG	J	359				Y					55.4	277	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	RDX	217	UG_KG	U			28000	6000						217	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Selenium	0.277	MG_KG	U	1.59	1.5	580	39						0.166	0.554	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Silver	0.111	MG_KG	U	0.354	3.4	580	39						0.0554	0.554	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Sodium	166	MG_KG	U	250									55.4	277	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Tetryl	174	UG_KG	U			160000	12000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Thallium	0.222	MG_KG	U		0.28	1.2	0.078						0.222	0.443	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Vanadium	10.4	MG_KG		17.6	6	580	39	Y					0.277	0.693	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS298-IC-12A	N	Zinc	134	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.277	1.11	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	1,3,5-Trinitrobenzene	174	UG_KG	U			3200000	220000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	1,3-Dinitrobenzene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	2,4,6-Trinitrotoluene	174	UG_KG	U			52000	3600						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	2,4-Dinitrotoluene	174	UG_KG	U		1.6	3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	2,6-Dinitrotoluene	174	UG_KG	U			3400	780						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	2-Amino-4,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	2-Nitrotoluene	174	UG_KG	U			15000	3200						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	3-Nitrotoluene	174	UG_KG	U			8200	620						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	4-Amino-2,6-dinitrotoluene	174	UG_KG	U			230000	15000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	4-Nitrotoluene	174	UG_KG	U			140000	25000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Aluminum	9550	MG_KG		12800		100000	7700	Y					2.95	11.8	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Antimony	0.473	MG_KG	UJ	1.87	0.9	47	3.1						0.295	0.591	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.177	0.591	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Barium	26.2	MG_KG		36.7	580	22000	1500	Y					0.295	2.36	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Beryllium	0.079	MG_KG	J	0.195	63	230	16	Y					0.0591	0.295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Cadmium	0.118	MG_KG	U	0.2	3	98	7						0.0591	0.295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Calcium	348	MG_KG	J	8470				Y					59.1	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Chromium	7.72	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.118	0.591	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Cobalt	0.89	MG_KG		0.414	0.9	35	2.3	Y	Y				0.295	0.739	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Copper	2.11	MG_KG	J	17.1	700	4700	310	Y					0.236	0.591	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	HMX	174	UG_KG	U			5700000	380000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Iron	4670	MG_KG		7210	150	82000	5500	Y					1.77	5.91	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Lead	7.83	MG_KG		27.5	270	800	400	Y					0.0886	0.177	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Magnesium	279	MG_KG	J	904				Y					59.1	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Manganese	16.6	MG_KG		37	65	2600	180	Y					0.177	0.886	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Mercury	0.0139	MG_KG	J	0.161	1	35	2.3	Y					0.0138	0.0351	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Nickel	2.79	MG_KG		3.11	130	2200	150	Y					0.177	0.591	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Nitrobenzene	174	UG_KG	U			22000	5100						87	348	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Nitroglycerin	435	UG_KG	U			8200	620						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.85	23.4	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	PETN	435	UG_KG	U			160000	12000						217	870	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Potassium	201	MG_KG	J	359				Y					59.1	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	RDX	174	UG_KG	U			28000	6000						174	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Selenium	0.295	MG_KG	U	1.59	1.5	580	39						0.177	0.591	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Silver	0.118	MG_KG	U	0.354	3.4	580	39						0.0591	0.591	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Sodium	177	MG_KG	U	250									59.1	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Tetryl	174	UG_KG	U			160000	12000						87	348	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Thallium	0.236	MG_KG	U		0.28	1.2	0.078						0.236	0.473	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Vanadium	10.3	MG_KG		17.6	6	580	39	Y					0.295	0.739	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS299-OC-12A	N	Zinc	147	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.295	1.18	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Aluminum	9490	MG_KG		12800		100000	7700	Y					2.82	11.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Antimony	0.451	MG_KG	UJ	1.87	0.9	47	3.1						0.282	0.564	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Arsenic	1.14	MG_KG		1.17	5.8	3	0.67	Y					0.169	0.564	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Barium	26.7	MG_KG		36.7	580	22000	1500	Y					0.282	2.25	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Beryllium	0.0766	MG_KG	J	0.195	63	230	16	Y					0.0564	0.282	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Cadmium	0.113	MG_KG	U	0.2	3	98	7						0.0564	0.282	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Calcium	321	MG_KG	J	8470				Y					56.4	282	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Chromium	7.64	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.113	0.564	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Cobalt	0.933	MG_KG		0.414	0.9	35	2.3	Y	Y				0.282	0.704	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Copper	1.91	MG_KG	J	17.1	700	4700	310	Y					0.225	0.564	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	HMX	182	UG_KG	U			5700000	380000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Iron	4460	MG_KG		7210	150	82000	5500	Y					1.69	5.64	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Lead	5.11	MG_KG		27.5	270	800	400	Y					0.0845	0.169	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Magnesium	278	MG_KG	J	904				Y					56.4	282	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Manganese	14.9	MG_KG		37	65	2600	180	Y					0.169	0.845	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Mercury	0.0158	MG_KG	J	0.161	1	35	2.3	Y					0.0114	0.0289	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Nickel	2.82	MG_KG		3.11	130	2200	150	Y					0.169	0.564	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Nitroglycerin	455	UG_KG	U			8200	620						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Perchlorate	11.7	UG_KG	U			82000	5500						5.83	23.3	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	PETN	455	UG_KG	U			160000	12000						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Potassium	198	MG_KG	J	359				Y					56.4	282	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	RDX	273	UG_KG	U			28000	6000						273	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Selenium	0.282	MG_KG	U	1.59	1.5	580	39						0.169	0.564	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0564	0.564	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Sodium	169	MG_KG	U	250									56.4	282	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Tetryl	182	UG_KG	U			160000	12000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Thallium	0.225	MG_KG	U		0.28	1.2	0.078						0.169	0.451	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Vanadium	10.1	MG_KG		17.6	6	580	39	Y					0.282	0.704	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300D-IC-12A	FD	Zinc	90.3	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.282	1.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	1,3,5-Trinitrobenzene	167	UG_KG	U			3200000	220000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	1,3-Dinitrobenzene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	2,4,6-Trinitrotoluene	167	UG_KG	U			52000	3600						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	2,4-Dinitrotoluene	167	UG_KG	U		1.6	3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	2,6-Dinitrotoluene	167	UG_KG	U			3400	780						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	2-Amino-4,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	2-Nitrotoluene	167	UG_KG	U			15000	3200						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	3-Nitrotoluene	167	UG_KG	U			8200	620						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	4-Amino-2,6-dinitrotoluene	167	UG_KG	U			230000	15000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	4-Nitrotoluene	167	UG_KG	U			140000	25000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Aluminum	10700	MG_KG		12800		100000	7700	Y					2.92	11.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Antimony	0.467	MG_KG	UJ	1.87	0.9	47	3.1						0.292	0.584	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Arsenic	1.26	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.175	0.584	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Barium	29.2	MG_KG		36.7	580	22000	1500	Y					0.292	2.33	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Beryllium	0.0868	MG_KG	J	0.195	63	230	16	Y					0.0584	0.292	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Cadmium	0.117	MG_KG	U	0.2	3	98	7						0.0584	0.292	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Calcium	401	MG_KG	J	8470				Y					58.4	292	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Chromium	8.6	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.117	0.584	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Cobalt	0.971	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.292	0.729	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Copper	2.24	MG_KG	J	17.1	700	4700	310	Y					0.233	0.584	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	HMX	167	UG_KG	U			5700000	380000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Iron	5170	MG_KG		7210	150	82000	5500	Y					1.75	5.84	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Lead	5.54	MG_KG		27.5	270	800	400	Y					0.0875	0.175	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Magnesium	311	MG_KG	J	904				Y					58.4	292	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Manganese	16.2	MG_KG		37	65	2600	180	Y					0.175	0.875	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Mercury	0.0385	MG_KG	U	0.161	1	35	2.3						0.0152	0.0385	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Nickel	3.04	MG_KG		3.11	130	2200	150	Y					0.175	0.584	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Nitrobenzene	167	UG_KG	U			22000	5100						83.3	333	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Nitroglycerin	417	UG_KG	U			8200	620						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.84	23.3	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	PETN	417	UG_KG	U			160000	12000						208	833	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Potassium	221	MG_KG	J	359				Y					58.4	292	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	RDX	208	UG_KG	U			28000	6000						208	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Selenium	0.292	MG_KG	U	1.59	1.5	580	39						0.175	0.584	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Silver	0.117	MG_KG	U	0.354	3.4	580	39						0.0584	0.584	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Sodium	175	MG_KG	U	250									58.4	292	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Tetryl	167	UG_KG	U			160000	12000						83.3	333	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Thallium	0.233	MG_KG	U		0.28	1.2	0.078						0.233	0.467	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Vanadium	11.8	MG_KG		17.6	6	580	39	Y					0.292	0.729	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS300-IC-12A	N	Zinc	95.5	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.292	1.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Aluminum	9950	MG_KG		12800		100000	7700	Y					2.85	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Antimony	0.456	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Arsenic	1.21	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Barium	28.6	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Beryllium	0.092	MG_KG	J	0.195	63	230	16	Y					0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Cadmium	0.114	MG_KG	U	0.2	3	98	7						0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Calcium	349	MG_KG	J	8470				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Chromium	7.93	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Cobalt	0.989	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Copper	2.05	MG_KG	J	17.1	700	4700	310	Y					0.228	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Iron	4920	MG_KG		7210	150	82000	5500	Y					1.71	5.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Lead	5.41	MG_KG		27.5	270	800	400	Y					0.0855	0.171	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Magnesium	290	MG_KG	J	904				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Manganese	18.3	MG_KG		37	65	2600	180	Y					0.171	0.855	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Mercury	0.0207	MG_KG	J	0.161	1	35	2.3	Y					0.0111	0.0282	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Nickel	2.97	MG_KG		3.11	130	2200	150	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.84	23.4	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Potassium	202	MG_KG	J	359				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	RDX	238	UG_KG	U			28000	6000						238	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Selenium	0.285	MG_KG	U	1.59	1.5	580	39						0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Sodium	171	MG_KG	U	250									57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Thallium	0.228	MG_KG	U		0.28	1.2	0.078						0.228	0.456	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Vanadium	10.5	MG_KG		17.6	6	580	39	Y					0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Outside of Crater	CDCA-SS301-OC-12A	N	Zinc	127	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.285	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	2,4-Dinitrotoluene	200	UG_KG	U		1.6	3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Aluminum	10000	MG_KG		12800		100000	7700	Y					2.95	11.8	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Antimony	0.471	MG_KG	UJ	1.87	0.9	47	3.1						0.295	0.589	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Arsenic	1.05	MG_KG		1.17	5.8	3	0.67	Y					0.177	0.589	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Barium	25.4	MG_KG		36.7	580	22000	1500	Y					0.295	2.36	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Beryllium	0.0789	MG_KG	J	0.195	63	230	16	Y					0.0589	0.295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Cadmium	0.118	MG_KG	U	0.2	3	98	7						0.0589	0.295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Calcium	395	MG_KG	J	8470				Y					58.9	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Chromium	8.41	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.118	0.589	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Cobalt	0.851	MG_KG		0.414	0.9	35	2.3	Y	Y				0.295	0.737	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Copper	1.96	MG_KG	J	17.1	700	4700	310	Y					0.236	0.589	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	HMX	200	UG_KG	U			5700000	380000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Iron	4610	MG_KG		7210	150	82000	5500	Y					1.77	5.89	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Lead	5.41	MG_KG		27.5	270	800	400	Y					0.0884	0.177	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Magnesium	282	MG_KG	J	904				Y					58.9	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Manganese	14.5	MG_KG		37	65	2600	180	Y					0.177	0.884	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Mercury	0.0138	MG_KG	J	0.161	1	35	2.3	Y					0.0123	0.0312	01/25/12	METAL	7471A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Nickel	2.56	MG_KG		3.11	130	2200	150	Y					0.177	0.589	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Perchlorate	11.7	UG_KG	U			82000	5500						5.83	23.3	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	PETN	500	UG_KG	U			160000	12000						250	1000	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Potassium	221	MG_KG	J	359				Y					58.9	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	RDX	300	UG_KG	U			28000	6000						300	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Selenium	0.295	MG_KG	U	1.59	1.5	580	39						0.177	0.589	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Silver	0.118	MG_KG	U	0.354	3.4	580	39						0.0589	0.589	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Sodium	177	MG_KG	U	250									58.9	295	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Tetryl	200	UG_KG	U			160000	12000						100	400	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Thallium	0.236	MG_KG	U		0.28	1.2	0.078						0.177	0.471	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Vanadium	11.2	MG_KG		17.6	6	580	39	Y					0.295	0.737	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Single Item/Single Detonation	Inside of Crater	CDCA-SS302-IC-12A	N	Zinc	169	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.295	1.18	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	1,3,5-Trinitrobenzene	182	UG_KG	U			3200000	220000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	1,3-Dinitrobenzene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	2,4,6-Trinitrotoluene	182	UG_KG	U			52000	3600						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	2,4-Dinitrotoluene	182	UG_KG	U		1.6	3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	2,6-Dinitrotoluene	182	UG_KG	U			3400	780						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	2-Amino-4,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	2-Nitrotoluene	182	UG_KG	U			15000	3200						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	3-Nitrotoluene	182	UG_KG	U			8200	620						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	4-Amino-2,6-dinitrotoluene	182	UG_KG	U			230000	15000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	4-Nitrotoluene	182	UG_KG	U			140000	25000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Aluminum	2970	MG_KG		12800		100000	7700	Y					5.33	21.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Antimony	0.427	MG_KG	UJ	1.87	0.9	47	3.1						0.267	0.533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Arsenic	2.66	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.16	0.533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Barium	11.7	MG_KG		36.7	580	22000	1500	Y					0.267	2.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Beryllium	0.112	MG_KG	J	0.195	63	230	16	Y					0.0533	0.267	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Cadmium	0.505	MG_KG		0.2	3	98	7	Y	Y				0.0533	0.267	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Calcium	29300	MG_KG	J	8470				Y	Y				107	533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Chromium	20.4	MG_KG	J	17.4	3.8	6.3	0.3	Y	Y	Y	Y	Y	0.107	0.533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Cobalt	0.879	MG_KG		0.414	0.9	35	2.3	Y	Y				0.267	0.667	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Copper	1.5	MG_KG	J	17.1	700	4700	310	Y					0.213	0.533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	HMX	182	UG_KG	U			5700000	380000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Iron	2760	MG_KG		7210	150	82000	5500	Y					1.6	5.33	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Lead	1.58	MG_KG		27.5	270	800	400	Y					0.16	0.32	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Magnesium	547	MG_KG	J	904				Y					53.3	267	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Manganese	17.9	MG_KG		37	65	2600	180	Y					0.16	0.8	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Mercury	0.0295	MG_KG	U	0.161	1	35	2.3						0.0116	0.0295	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Nickel	5.32	MG_KG		3.11	130	2200	150	Y	Y				0.16	0.533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Nitrobenzene	182	UG_KG	U			22000	5100						90.9	364	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Nitroglycerin	455	UG_KG	U			8200	620						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.65	22.6	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	PETN	455	UG_KG	U			160000	12000						227	909	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Potassium	412	MG_KG	J	359				Y	Y				53.3	267	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	RDX	182	UG_KG	U			28000	6000						182	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Selenium	0.624	MG_KG		1.59	1.5	580	39	Y					0.16	0.533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Silver	0.107	MG_KG	U	0.354	3.4	580	39						0.0533	0.533	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Sodium	311	MG_KG		250				Y	Y				53.3	267	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Tetryl	182	UG_KG	U			160000	12000						90.9	364	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Thallium	0.21	MG_KG	J		0.28	1.2	0.078	Y				Y	0.16	0.427	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Vanadium	12.2	MG_KG		17.6	6	580	39	Y					0.267	0.667	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS303-OC-12A	N	Zinc	14.2	MG_KG	J	28.6	1200	35000	2300	Y					0.533	2.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	1,3,5-Trinitrobenzene	160	UG_KG	U			3200000	220000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	1,3-Dinitrobenzene	160	UG_KG	U			8200	620						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	2,4,6-Trinitrotoluene	160	UG_KG	U			52000	3600						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	2,4-Dinitrotoluene	160	UG_KG	U		1.6	3400	780						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	2,6-Dinitrotoluene	160	UG_KG	U			3400	780						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	2-Amino-4,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	2-Nitrotoluene	160	UG_KG	U			15000	3200						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	3-Nitrotoluene	160	UG_KG	U			8200	620						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	4-Amino-2,6-dinitrotoluene	160	UG_KG	U			230000	15000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	4-Nitrotoluene	160	UG_KG	U			140000	25000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Aluminum	2490	MG_KG		12800		100000	7700	Y					2.84	11.3	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Antimony	0.454	MG_KG	UJ	1.87	0.9	47	3.1						0.284	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Arsenic	2.67	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.17	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Barium	11.2	MG_KG		36.7	580	22000	1500	Y					0.284	2.27	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Beryllium	0.121	MG_KG	J	0.195	63	230	16	Y					0.0567	0.284	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Cadmium	0.562	MG_KG		0.2	3	98	7	Y	Y				0.0567	0.284	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Calcium	18700	MG_KG	J	8470				Y	Y				56.7	284	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Chromium	21.5	MG_KG	J	17.4	3.8	6.3	0.3	Y	Y	Y	Y	Y	0.113	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Cobalt	0.944	MG_KG		0.414	0.9	35	2.3	Y	Y				0.284	0.709	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Copper	1.47	MG_KG	J	17.1	700	4700	310	Y					0.227	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	HMX	160	UG_KG	U			5700000	380000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Iron	2830	MG_KG		7210	150	82000	5500	Y					1.7	5.67	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Lead	1.33	MG_KG		27.5	270	800	400	Y					0.0851	0.17	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Magnesium	454	MG_KG	J	904				Y					56.7	284	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Manganese	16.7	MG_KG		37	65	2600	180	Y					0.17	0.851	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Mercury	0.0281	MG_KG	U	0.161	1	35	2.3						0.0111	0.0281	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Nickel	5.94	MG_KG		3.11	130	2200	150	Y	Y				0.17	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Nitrobenzene	160	UG_KG	U			22000	5100						80	320	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Nitroglycerin	400	UG_KG	U			8200	620						200	800	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Perchlorate	11.3	UG_KG	U			82000	5500						5.67	22.7	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	PETN	400	UG_KG	U			160000	12000						200	800	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Potassium	418	MG_KG	J	359				Y	Y				56.7	284	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	RDX	240	UG_KG	U			28000	6000						240	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Selenium	0.719	MG_KG		1.59	1.5	580	39	Y					0.17	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Silver	0.113	MG_KG	U	0.354	3.4	580	39						0.0567	0.567	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Sodium	255	MG_KG	J	250				Y	Y				56.7	284	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Tetryl	160	UG_KG	U			160000	12000						80	320	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Thallium	0.293	MG_KG	J		0.28	1.2	0.078	Y		Y		Y	0.17	0.454	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Vanadium	12.3	MG_KG		17.6	6	580	39	Y					0.284	0.709	01/25/12	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304D-OC-12A	FD	Zinc	14.3	MG_KG	J	28.6	1200	35000	2300	Y					0.284	1.13	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	1,3,5-Trinitrobenzene	143	UG_KG	U			3200000	220000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	1,3-Dinitrobenzene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	2,4,6-Trinitrotoluene	143	UG_KG	U			52000	3600						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	2,4-Dinitrotoluene	143	UG_KG	U		1.6	3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	2,6-Dinitrotoluene	143	UG_KG	U			3400	780						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	2-Amino-4,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	2-Nitrotoluene	143	UG_KG	U			15000	3200						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	3-Nitrotoluene	143	UG_KG	U			8200	620						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	4-Amino-2,6-dinitrotoluene	143	UG_KG	U			230000	15000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	4-Nitrotoluene	143	UG_KG	U			140000	25000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Aluminum	3880	MG_KG		12800		100000	7700	Y					2.85	11.4	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Antimony	0.456	MG_KG	UJ	1.87	0.9	47	3.1						0.285	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Arsenic	2.7	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Barium	14.5	MG_KG		36.7	580	22000	1500	Y					0.285	2.28	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Beryllium	0.129	MG_KG	J	0.195	63	230	16	Y					0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Cadmium	0.525	MG_KG		0.2	3	98	7	Y	Y				0.057	0.285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Calcium	16000	MG_KG	J	8470				Y	Y				57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Chromium	20	MG_KG	J	17.4	3.8	6.3	0.3	Y	Y	Y	Y	Y	0.114	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Cobalt	1.08	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Copper	1.6	MG_KG	J	17.1	700	4700	310	Y					0.228	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	HMX	143	UG_KG	U			5700000	380000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Iron	3160	MG_KG		7210	150	82000	5500	Y					1.71	5.7	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Lead	1.83	MG_KG		27.5	270	800	400	Y					0.0854	0.171	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Magnesium	434	MG_KG	J	904				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Manganese	16.7	MG_KG		37	65	2600	180	Y					0.171	0.854	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Mercury	0.0387	MG_KG	U	0.161	1	35	2.3						0.0152	0.0387	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Nickel	5.72	MG_KG		3.11	130	2200	150	Y	Y				0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Nitrobenzene	143	UG_KG	U			22000	5100						71.4	286	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Nitroglycerin	357	UG_KG	U			8200	620						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.67	22.7	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	PETN	357	UG_KG	U			160000	12000						179	714	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Potassium	406	MG_KG	J	359				Y	Y				57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	RDX	250	UG_KG	U			28000	6000						250	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Selenium	0.644	MG_KG		1.59	1.5	580	39	Y					0.171	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Silver	0.114	MG_KG	U	0.354	3.4	580	39						0.057	0.57	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Sodium	250	MG_KG	J	250				Y					57	285	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Tetryl	143	UG_KG	U			160000	12000						71.4	286	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Thallium	0.196	MG_KG	J		0.28	1.2	0.078	Y				Y	0.171	0.456	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Vanadium	12.5	MG_KG		17.6	6	580	39	Y					0.285	0.712	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS304-OC-12A	N	Zinc	14.9	MG_KG	J	28.6	1200	35000	2300	Y					0.285	1.14	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	2,4-Dinitrotoluene	190	UG_KG	U		1.6	3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Aluminum	2830	MG_KG		12800		100000	7700	Y					2.81	11.2	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Antimony	0.45	MG_KG	UJ	1.87	0.9	47	3.1						0.281	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Arsenic	2.61	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Barium	12.9	MG_KG		36.7	580	22000	1500	Y					0.281	2.25	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Beryllium	0.123	MG_KG	J	0.195	63	230	16	Y					0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Cadmium	0.51	MG_KG		0.2	3	98	7	Y	Y				0.0562	0.281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Calcium	19000	MG_KG	J	8470				Y	Y				56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Chromium	20.9	MG_KG	J	17.4	3.8	6.3	0.3	Y	Y	Y	Y	Y	0.112	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Cobalt	1.01	MG_KG		0.414	0.9	35	2.3	Y	Y	Y			0.281	0.703	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Copper	1.5	MG_KG	J	17.1	700	4700	310	Y					0.225	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Iron	2840	MG_KG		7210	150	82000	5500	Y					1.69	5.62	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Lead	1.55	MG_KG		27.5	270	800	400	Y					0.0843	0.169	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Magnesium	437	MG_KG	J	904				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Manganese	18.4	MG_KG		37	65	2600	180	Y					0.169	0.843	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Mercury	0.0294	MG_KG	U	0.161	1	35	2.3						0.0116	0.0294	01/25/12	METAL	7471A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Nickel	5.57	MG_KG		3.11	130	2200	150	Y	Y				0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	01/25/12	SVOA	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Perchlorate	11.3	UG_KG	U			82000	5500						5.65	22.6	01/25/12	EXPLO	6850	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	PETN	476	UG_KG	U			160000	12000						238	952	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Potassium	413	MG_KG	J	359				Y	Y				56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	RDX	286	UG_KG	U			28000	6000						286	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Selenium	0.638	MG_KG		1.59	1.5	580	39	Y					0.169	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Silver	0.112	MG_KG	U	0.354	3.4	580	39						0.0562	0.562	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Sodium	243	MG_KG	J	250				Y					56.2	281	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	01/25/12	EXPLO	8330A	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Thallium	0.196	MG_KG	J		0.28	1.2	0.078	Y				Y	0.169	0.45	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Vanadium	12.2	MG_KG		17.6	6	580	39	Y					0.281	0.703	01/25/12	METAL	6010B	SS
UXO-19	RI/FS	Multiple Items/Multiple Detonations	Decision Unit	CDCA-SS305-OC-12A	N	Zinc	14.6	MG_KG	J	28.6	1200	35000	2300	Y					0.281	1.12	01/25/12	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	1,3,5-Trinitrobenzene	20.6	UG_KG	JP			3200000	220000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	1,3-Dinitrobenzene	64.1	UG_KG				8200	620	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	2,4,6-Trinitrotoluene	7190	UG_KG	J			52000	3600	Y				Y	20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	2,4-Dinitrotoluene	41.7	UG_KG	J		1.6	3400	780	Y		Y			20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	2,6-Dinitrotoluene	42.1	UG_KG	JPM			3400	780	Y					20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	2-Amino-4,6-dinitrotoluene	88.7	UG_KG				230000	15000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	3-Nitrotoluene	60	UG_KG	U			8200	620						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	4-Amino-2,6-dinitrotoluene	60	UG_KG	UJ			230000	15000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	4-Nitrotoluene	60	UG_KG	U			140000	25000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Antimony	0.857	MG_KG	UN	1.87	0.9	47	3.1						0.286	0.857	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Arsenic	1.39	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.171	0.343	03/07/10	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Copper	21.8	MG_KG	N	17.1	700	4700	310	Y	Y				0.286	0.571	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	HMX	60	UG_KG	UQ			5700000	380000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Lead	8.47	MG_KG		27.5	270	800	400	Y					0.0857	0.171	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Nitroglycerin	156	UG_KG	JQ			8200	620	Y					100	300	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Perchlorate	2.35	UG_KG	U			82000	5500						0.706	2.35	03/07/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	PETN	300	UG_KG	U			160000	12000						100	300	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	RDX	60	UG_KG	U			28000	6000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Tetryl	60	UG_KG	U			160000	12000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01-10A	N	Zinc	19.5	MG_KG		28.6	1200	35000	2300	Y					0.286	1.14	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	1,3,5-Trinitrobenzene	98.1	UG_KG	P			3200000	220000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	1,3-Dinitrobenzene	70.4	UG_KG				8200	620	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	2,4,6-Trinitrotoluene	7650	UG_KG				52000	3600	Y				Y	20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	2,4-Dinitrotoluene	117	UG_KG	P		1.6	3400	780	Y		Y			20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	2,6-Dinitrotoluene	49.8	UG_KG	JP			3400	780	Y					20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	2-Amino-4,6-dinitrotoluene	126	UG_KG	P			230000	15000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	3-Nitrotoluene	60	UG_KG	U			8200	620						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	4-Amino-2,6-dinitrotoluene	60	UG_KG	U			230000	15000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	4-Nitrotoluene	60	UG_KG	U			140000	25000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Antimony	0.988	MG_KG	UN	1.87	0.9	47	3.1						0.329	0.988	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Arsenic	1.69	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.198	0.395	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Copper	9.1	MG_KG	N	17.1	700	4700	310	Y					0.329	0.658	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	HMX	60	UG_KG	UQ			5700000	380000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Lead	8.03	MG_KG		27.5	270	800	400	Y					0.0988	0.198	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Nitroglycerin	151	UG_KG	JPQ			8200	620	Y					100	300	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Perchlorate	2.57	UG_KG	U			82000	5500						0.77	2.57	03/07/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	PETN	300	UG_KG	U			160000	12000						100	300	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	RDX	60	UG_KG	U			28000	6000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Tetryl	60	UG_KG	U			160000	12000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP01D-10A	FD	Zinc	14.9	MG_KG		28.6	1200	35000	2300	Y					0.329	1.32	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	1,3,5-Trinitrobenzene	27.6	UG_KG	J			3200000	220000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	1,3-Dinitrobenzene	172	UG_KG	PM			8200	620	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	2,4,6-Trinitrotoluene	129000	UG_KG	D			52000	3600	Y			Y	Y	400	1200	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	2,4-Dinitrotoluene	580	UG_KG			1.6	3400	780	Y		Y			20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	2,6-Dinitrotoluene	177	UG_KG				3400	780	Y					20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	2-Amino-4,6-dinitrotoluene	635	UG_KG	P			230000	15000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	3-Nitrotoluene	27.5	UG_KG	JP			8200	620	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	4-Amino-2,6-dinitrotoluene	369	UG_KG	Z-01			230000	15000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	4-Nitrotoluene	54.5	UG_KG	J			140000	25000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Antimony	0.839	MG_KG	UN	1.87	0.9	47	3.1						0.28	0.839	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Arsenic	0.91	MG_KG		1.17	5.8	3	0.67	Y					0.168	0.336	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Copper	6.74	MG_KG	N	17.1	700	4700	310	Y					0.28	0.559	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	HMX	27.6	UG_KG	JPQ			5700000	380000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Lead	9.45	MG_KG		27.5	270	800	400	Y					0.0839	0.168	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/07/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Nitroglycerin	135	UG_KG	JPQ			8200	620	Y					100	300	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Perchlorate	2.36	UG_KG	U			82000	5500						0.708	2.36	03/07/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	PETN	300	UG_KG	U			160000	12000						100	300	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	RDX	60	UG_KG	U			28000	6000						20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Tetryl	399	UG_KG				160000	12000	Y					20	60	03/07/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP02-10A	N	Zinc	16.4	MG_KG		28.6	1200	35000	2300	Y					0.28	1.12	03/07/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	1,3,5-Trinitrobenzene	65	UG_KG				3200000	220000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	1,3-Dinitrobenzene	131	UG_KG				8200	620	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	2,4,6-Trinitrotoluene	19300	UG_KG				52000	3600	Y				Y	20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	2,4-Dinitrotoluene	20.2	UG_KG			1.6	3400	780	Y		Y			20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	2,6-Dinitrotoluene	69.6	UG_KG	P			3400	780	Y					20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	2-Amino-4,6-dinitrotoluene	242	UG_KG	P			230000	15000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	3-Nitrotoluene	60	UG_KG	U			8200	620						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	4-Amino-2,6-dinitrotoluene	176	UG_KG	Z-01			230000	15000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	4-Nitrotoluene	60	UG_KG	U			140000	25000						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Antimony	0.993	MG_KG	UN	1.87	0.9	47	3.1						0.331	0.993	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Arsenic	1.34	MG_KG		1.17	5.8	3	0.67	Y	Y			Y	0.199	0.397	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Copper	2.57	MG_KG	N	17.1	700	4700	310	Y					0.331	0.662	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	HMX	25.9	UG_KG	JPQ			5700000	380000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Lead	9.22	MG_KG		27.5	270	800	400	Y					0.0993	0.199	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Nitroglycerin	166	UG_KG	JPQ			8200	620	Y					100	300	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Perchlorate	2.67	UG_KG	U			82000	5500						0.802	2.67	03/09/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	PETN	300	UG_KG	U			160000	12000						100	300	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	RDX	35.1	UG_KG	JPM			28000	6000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Tetryl	60	UG_KG	U			160000	12000						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP03-10A	N	Zinc	12	MG_KG		28.6	1200	35000	2300	Y					0.331	1.32	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	1,3,5-Trinitrobenzene	26.4	UG_KG	JPM			3200000	220000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	1,3-Dinitrobenzene	194	UG_KG				8200	620	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	2,4,6-Trinitrotoluene	19300	UG_KG				52000	3600	Y				Y	20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	2,4-Dinitrotoluene	203	UG_KG			1.6	3400	780	Y		Y			20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	2,6-Dinitrotoluene	65.9	UG_KG	PM			3400	780	Y					20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	2-Amino-4,6-dinitrotoluene	238	UG_KG				230000	15000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	3-Nitrotoluene	60	UG_KG	U			8200	620						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	4-Amino-2,6-dinitrotoluene	178	UG_KG	Z-01			230000	15000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	4-Nitrotoluene	60	UG_KG	U			140000	25000						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Antimony	0.828	MG_KG	UN	1.87	0.9	47	3.1						0.276	0.828	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Arsenic	0.958	MG_KG		1.17	5.8	3	0.67	Y					0.166	0.331	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Copper	4.3	MG_KG	N	17.1	700	4700	310	Y					0.276	0.552	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	HMX	31.5	UG_KG	JPQ			5700000	380000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Lead	7.18	MG_KG		27.5	270	800	400	Y					0.0828	0.166	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Nitroglycerin	160	UG_KG	JPQ			8200	620	Y					100	300	03/09/10	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Perchlorate	975	UG_KG	D			82000	5500	Y					13.1	43.7	03/09/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	PETN	300	UG_KG	U			160000	12000						100	300	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	RDX	42.3	UG_KG	JPM			28000	6000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Tetryl	50.8	UG_KG	JP			160000	12000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP04-10A	N	Zinc	5.42	MG_KG		28.6	1200	35000	2300	Y					0.276	1.1	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	1,3,5-Trinitrobenzene	60	UG_KG	U			3200000	220000						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	1,3-Dinitrobenzene	39.6	UG_KG	JPM			8200	620	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	2,4,6-Trinitrotoluene	130000	UG_KG	D			52000	3600	Y			Y	Y	400	1200	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	2,4-Dinitrotoluene	387	UG_KG			1.6	3400	780	Y		Y			20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	2,6-Dinitrotoluene	123	UG_KG				3400	780	Y					20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	2-Amino-4,6-dinitrotoluene	92.7	UG_KG	PQM			230000	15000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	3-Nitrotoluene	60	UG_KG	U			8200	620						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	4-Amino-2,6-dinitrotoluene	133	UG_KG	Z-01			230000	15000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	4-Nitrotoluene	60	UG_KG	U			140000	25000						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Antimony	0.83	MG_KG	UN	1.87	0.9	47	3.1						0.277	0.83	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Arsenic	0.77	MG_KG		1.17	5.8	3	0.67	Y					0.166	0.332	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Copper	4.47	MG_KG	N	17.1	700	4700	310	Y					0.277	0.554	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	HMX	60	UG_KG	UQ			5700000	380000						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Lead	4.88	MG_KG		27.5	270	800	400	Y					0.083	0.166	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/09/10	SVOA	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Nitroglycerin	300	UG_KG	UQ			8200	620						100	300	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Perchlorate	2.21	UG_KG	U			82000	5500						0.664	2.21	03/09/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	PETN	300	UG_KG	U			160000	12000						100	300	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	RDX	60	UG_KG	U			28000	6000						20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Tetryl	546	UG_KG				160000	12000	Y					20	60	03/09/10	EXPLO	8330A	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP05-10A	N	Zinc	4.63	MG_KG		28.6	1200	35000	2300	Y					0.277	1.11	03/09/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	1,3,5-Trinitrobenzene	60	UG_KG	U			3200000	220000						20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	1,3-Dinitrobenzene	60	UG_KG	U			8200	620						20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	2,4,6-Trinitrotoluene	5140	UG_KG				52000	3600	Y				Y	20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	2,4-Dinitrotoluene	7040	UG_KG			1.6	3400	780	Y		Y		Y	20	60	03/10/10	SVOA	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	2,6-Dinitrotoluene	216	UG_KG	P			3400	780	Y					20	60	03/10/10	SVOA	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	2-Amino-4,6-dinitrotoluene	119	UG_KG	P			230000	15000	Y					20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	3-Nitrotoluene	60	UG_KG	U			8200	620						20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	4-Amino-2,6-dinitrotoluene	60	UG_KG	U			230000	15000						20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	4-Nitrotoluene	60	UG_KG	U			140000	25000						20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Antimony	0.805	MG_KG	U	1.87	0.9	47	3.1						0.268	0.805	03/10/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Arsenic	0.924	MG_KG		1.17	5.8	3	0.67	Y					0.161	0.322	03/10/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Copper	6.96	MG_KG		17.1	700	4700	310	Y					0.268	0.537	03/10/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	HMX	60	UG_KG	UQ			5700000	380000						20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Lead	7.68	MG_KG		27.5	270	800	400	Y					0.0805	0.161	03/10/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/10/10	SVOA	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Nitroglycerin	229	UG_KG	JPQ			8200	620	Y					100	300	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Perchlorate	2.21	UG_KG	U			82000	5500						0.664	2.21	03/10/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	PETN	300	UG_KG	U			160000	12000						100	300	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	RDX	27.6	UG_KG	JPM			28000	6000	Y					20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Tetryl	54.6	UG_KG	J			160000	12000	Y					20	60	03/10/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP06-10A	N	Zinc	4.77	MG_KG		28.6	1200	35000	2300	Y					0.268	1.07	03/10/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	1,3,5-Trinitrobenzene	50.1	UG_KG	JP			3200000	220000	Y					20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	1,3-Dinitrobenzene	210	UG_KG	P			8200	620	Y					20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	2,4,6-Trinitrotoluene	4210	UG_KG				52000	3600	Y				Y	20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	2,4-Dinitrotoluene	78.6	UG_KG			1.6	3400	780	Y		Y			20	60	03/14/10	SVOA	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	2,6-Dinitrotoluene	79.3	UG_KG				3400	780	Y					20	60	03/14/10	SVOA	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	2-Amino-4,6-dinitrotoluene	178	UG_KG	P			230000	15000	Y					20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	2-Nitrotoluene	60	UG_KG	U			15000	3200						20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	3-Nitrotoluene	60	UG_KG	U			8200	620						20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	4-Amino-2,6-dinitrotoluene	60	UG_KG	UJ			230000	15000						20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	4-Nitrotoluene	60	UG_KG	U			140000	25000						20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Antimony	0.85	MG_KG	U	1.87	0.9	47	3.1						0.85	0.85	03/14/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Arsenic	0.604	MG_KG		1.17	5.8	3	0.67	Y					0.302	0.302	03/14/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Copper	1.01	MG_KG		17.1	700	4700	310	Y					0.503	0.503	03/14/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	HMX	60	UG_KG	U			5700000	380000						20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Lead	8.61	MG_KG		27.5	270	800	400	Y					0.151	0.151	03/14/10	METAL	6010B	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Nitrobenzene	60	UG_KG	U			22000	5100						20	60	03/14/10	SVOA	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Nitroglycerin	123	UG_KG	JP			8200	620	Y					100	300	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Perchlorate	5.34	UG_KG				82000	5500	Y					0.677	2.26	03/14/10	EXPLO	6850	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	PETN	300	UG_KG	U			160000	12000						100	300	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	RDX	41	UG_KG	J			28000	6000	Y					20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Tetryl	1290	UG_KG	J			160000	12000	Y					20	60	03/14/10	EXPLO	8330	SS
UXO-19	PA/SI	Single Item/Single Detonation	Inside of Crater	CDCA-SSBIP07-10A	N	Zinc	5.2	MG_KG		28.6	1200	35000	2300	Y					1.01	1.01	03/14/10	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	1,3,5-Trinitrobenzene	60	UG_KG	U			3200000	220000						8	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	1,3-Dinitrobenzene	60	UG_KG	U			8200	620						7.4	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	2,4,6-Trinitrotoluene	60	UG_KG	U			52000	3600						8	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	2,4-Dinitrotoluene	60	UG_KG	U			3400	780						18	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	2,6-Dinitrotoluene	60	UG_KG	U			3400	780						32	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	2-Amino-4,6-dinitrotoluene	60	UG_KG	U			230000	15000						25	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	2-Nitrotoluene	60	UG_KG	U			15000	3200						14	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	3-Nitrotoluene	60	UG_KG	U			8200	620						9.5	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	4-Amino-2,6-dinitrotoluene	60	UG_KG	U			230000	15000						20	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	4-Nitrotoluene	60	UG_KG	U			140000	25000						32	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Aluminum	3060	MG_KG		12800		100000	7700	Y					0.56	24	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Antimony	0.39	MG_KG	U	1.87	0.9	47	3.1						0.06	0.63	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Arsenic	0.57	MG_KG	J	1.17	5.8	3	0.67	Y					0.05	0.63	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Barium	9.3	MG_KG		36.7	580	22000	1500	Y					0.02	0.39	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Beryllium	0.08	MG_KG	J	0.195	63	230	16	Y					0.006	0.39	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Cadmium	0.09	MG_KG	J	0.2	3	98	7	Y					0.006	0.39	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Calcium	657	MG_KG		8470				Y					1.4	7.9	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Chromium	3.1	MG_KG		17.4	3.8	6.3	0.3	Y					0.02	0.79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Cobalt	0.26	MG_KG	J	0.414	0.9	35	2.3	Y					0.02	0.79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Copper	1.3	MG_KG	J	17.1	700	4700	310	Y					0.12	2	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	HMX	60	UG_KG	U			5700000	380000						10	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Iron	1650	MG_KG		7210	150	82000	5500	Y					1.12	7.9	07/19/2012 10:05	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Lead	5.4	MG_KG		27.5	270	800	400	Y					0.07	0.39	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Magnesium	95.4	MG_KG		904				Y					0.53	7.9	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Manganese	5.1	MG_KG		37	65	2600	180	Y					0.13	0.39	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Mercury	0.02	MG_KG	J	0.161	1	35	2.3	Y					0.005	0.034	07/19/2012 10:05	METAL	7471A	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Nickel	0.94	MG_KG		3.11	130	2200	150	Y					0.03	0.79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Nitrobenzene	60	UG_KG	U			22000	5100						26	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Nitroglycerin	480	UG_KG	U			8200	620						150	960	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Perchlorate	0.54	UG_KG	U			82000	5500						0.35	6.7	07/19/2012 10:05	EXPLO	6850	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	PETN	480	UG_KG	U			160000	12000						130	960	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Potassium	103	MG_KG		359				Y					2.29	79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	RDX	60	UG_KG	U			28000	6000						8.2	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Selenium	0.14	MG_KG	J	1.59	1.5	580	39	Y					0.13	0.79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Silver	0.32	MG_KG	U	0.354	3.4	580	39						0.02	0.79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Sodium	16.2	MG_KG	J	250				Y					1.16	79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Tetryl	60	UG_KG	U			160000	12000						6.5	120	07/19/2012 10:05	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Thallium	0.39	MG_KG	U		0.28	1.2	0.078						0.07	1.2	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Vanadium	3.6	MG_KG		17.6	6	580	39	Y					0.03	0.79	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11D-OC-12C	FD	Zinc	5.1	MG_KG		28.6	1200	35000	2300	Y					0.13	1.6	07/19/2012 10:05	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	1,3,5-Trinitrobenzene	48	UG_KG	U			3200000	220000						6.5	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	1,3-Dinitrobenzene	48	UG_KG	U			8200	620						6	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	2,4,6-Trinitrotoluene	48	UG_KG	U			52000	3600						6.5	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	2,4-Dinitrotoluene	48	UG_KG	U			3400	780						14	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	2,6-Dinitrotoluene	48	UG_KG	U			3400	780						26	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	2-Amino-4,6-dinitrotoluene	48	UG_KG	U			230000	15000						20	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	2-Nitrotoluene	48	UG_KG	U			15000	3200						12	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	3-Nitrotoluene	48	UG_KG	U			8200	620						7.6	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	4-Amino-2,6-dinitrotoluene	48	UG_KG	U			230000	15000						16	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	4-Nitrotoluene	48	UG_KG	U			140000	25000						26	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Aluminum	3860	MG_KG		12800		100000	7700	Y					0.43	18	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Antimony	0.3	MG_KG	U	1.87	0.9	47	3.1						0.04	0.48	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Arsenic	0.63	MG_KG		1.17	5.8	3	0.67	Y					0.04	0.48	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Barium	9.3	MG_KG		36.7	580	22000	1500	Y					0.02	0.3	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Beryllium	0.08	MG_KG	J	0.195	63	230	16	Y					0.004	0.3	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Cadmium	0.09	MG_KG	J	0.2	3	98	7	Y					0.005	0.3	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Calcium	551	MG_KG		8470				Y					1.08	6.1	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Chromium	4.7	MG_KG		17.4	3.8	6.3	0.3	Y					0.02	0.61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Cobalt	0.32	MG_KG	J	0.414	0.9	35	2.3	Y					0.02	0.61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Copper	1.8	MG_KG		17.1	700	4700	310	Y					0.09	1.5	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	HMX	48	UG_KG	U			5700000	380000						8.3	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Iron	1870	MG_KG		7210	150	82000	5500	Y					0.86	6.1	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Lead	7.5	MG_KG		27.5	270	800	400	Y					0.05	0.3	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Magnesium	130	MG_KG		904				Y					0.41	6.1	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Manganese	6.5	MG_KG		37	65	2600	180	Y					0.1	0.3	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Mercury	0.02	MG_KG	J	0.161	1	35	2.3	Y					0.004	0.028	07/19/2012 09:30	METAL	7471A	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Nickel	1.2	MG_KG		3.11	130	2200	150	Y					0.03	0.61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Nitrobenzene	48	UG_KG	U			22000	5100						21	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Nitroglycerin	380	UG_KG	U			8200	620						120	770	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Perchlorate	0.43	UG_KG	U			82000	5500						0.28	5.4	07/19/2012 09:30	EXPLO	6850	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	PETN	380	UG_KG	U			160000	12000						100	770	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Potassium	141	MG_KG		359				Y					1.76	61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	RDX	48	UG_KG	U			28000	6000						6.6	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Selenium	0.42	MG_KG	U	1.59	1.5	580	39						0.1	0.61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Silver	0.03	MG_KG	J	0.354	3.4	580	39	Y					0.02	0.61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Sodium	23.2	MG_KG	J	250				Y					0.89	61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Tetryl	48	UG_KG	U			160000	12000						5.2	96	07/19/2012 09:30	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Thallium	0.3	MG_KG	U		0.28	1.2	0.078						0.05	0.91	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Vanadium	5	MG_KG		17.6	6	580	39	Y					0.02	0.61	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Inside of Crater	MR21-SS11-IC-12C	N	Zinc	6.2	MG_KG		28.6	1200	35000	2300	Y					0.1	1.2	07/19/2012 09:30	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	1,3,5-Trinitrobenzene	51	UG_KG	U			3200000	220000						6.8	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	1,3-Dinitrobenzene	51	UG_KG	U			8200	620						6.3	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	2,4,6-Trinitrotoluene	51	UG_KG	U			52000	3600						6.8	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	2,4-Dinitrotoluene	51	UG_KG	U			3400	780						15	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	2,6-Dinitrotoluene	51	UG_KG	U			3400	780						27	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	2-Amino-4,6-dinitrotoluene	51	UG_KG	U			230000	15000						21	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	2-Nitrotoluene	51	UG_KG	U			15000	3200						12	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	3-Nitrotoluene	51	UG_KG	U			8200	620						8	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	4-Amino-2,6-dinitrotoluene	51	UG_KG	U			230000	15000						17	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	4-Nitrotoluene	51	UG_KG	U			140000	25000						27	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Aluminum	2790	MG_KG		12800		100000	7700	Y					0.6	25	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Antimony	0.42	MG_KG	U	1.87	0.9	47	3.1						0.06	0.67	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Arsenic	0.53	MG_KG	J	1.17	5.8	3	0.67	Y					0.06	0.67	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Barium	9.1	MG_KG		36.7	580	22000	1500	Y					0.02	0.42	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Beryllium	0.09	MG_KG	J	0.195	63	230	16	Y					0.006	0.42	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Cadmium	0.09	MG_KG	J	0.2	3	98	7	Y					0.007	0.42	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Calcium	671	MG_KG		8470				Y					1.49	8.4	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Chromium	2.8	MG_KG		17.4	3.8	6.3	0.3	Y					0.02	0.84	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Cobalt	0.23	MG_KG	J	0.414	0.9	35	2.3	Y					0.02	0.84	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Copper	1.3	MG_KG	J	17.1	700	4700	310	Y					0.13	2.1	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	HMX	51	UG_KG	U			5700000	380000						8.7	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Iron	1410	MG_KG		7210	150	82000	5500	Y					1.19	8.4	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Lead	5.1	MG_KG		27.5	270	800	400	Y					0.07	0.42	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Magnesium	85.3	MG_KG		904				Y					0.57	8.4	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Manganese	4.5	MG_KG		37	65	2600	180	Y					0.13	0.42	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Mercury	0.02	MG_KG	J	0.161	1	35	2.3	Y					0.005	0.035	07/19/2012 10:00	METAL	7471A	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Nickel	0.89	MG_KG		3.11	130	2200	150	Y					0.04	0.84	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Nitrobenzene	51	UG_KG	U			22000	5100						22	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Nitroglycerin	400	UG_KG	U			8200	620						120	810	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Perchlorate	0.54	UG_KG	U			82000	5500						0.35	6.8	07/19/2012 10:00	EXPLO	6850	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	PETN	400	UG_KG	U			160000	12000						110	810	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Potassium	87.2	MG_KG		359				Y					2.43	84	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	RDX	51	UG_KG	U			28000	6000						6.9	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Selenium	0.59	MG_KG	U	1.59	1.5	580	39						0.14	0.84	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Silver	0.06	MG_KG	J	0.354	3.4	580	39	Y					0.02	0.84	07/19/2012 10:00	METAL	6010B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Sodium	23.4	MG_KG	J	250				Y					1.24	84	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Tetryl	51	UG_KG	U			160000	12000						5.5	100	07/19/2012 10:00	EXPLO	8330	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Thallium	0.42	MG_KG	U		0.28	1.2	0.078						0.07	1.2	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Vanadium	3.2	MG_KG		17.6	6	580	39	Y					0.03	0.84	07/19/2012 10:00	METAL	6010B	SS
UXO-21	WE30/31 MILCON	Single Item/Single Detonation	Outside of Crater	MR21-SS11-OC-12C	N	Zinc	6.4	MG_KG		28.6	1200	35000	2300	Y					0.14	1.7	07/19/2012 10:00	METAL	6010B	SS
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Aluminum	2970	MG_KG	E	12800		100000	7700	Y					3.13	16.5	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Antimony	1.65	MG_KG	U	1.87	0.9	47	3.1						0.313	3.29	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Arsenic	1.65	MG_KG	U	1.17	5.8	3	0.67						0.428	3.29	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Barium	4.75	MG_KG		36.7	580	22000	1500	Y					0.0181	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Beryllium	0.0173	MG_KG	J	0.195	63	230	16	Y					0.01	0.0823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Cadmium	0.165	MG_KG	U	0.2	3	98	7						0.023	0.329	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Calcium	287	MG_KG		8470				Y					3.13	41.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Chromium	1.72	MG_KG		17.4	3.8	6.3	0.3	Y					0.0477	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Cobalt	0.116	MG_KG	J	0.414	0.9	35	2.3	Y					0.0379	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Copper	0.5	MG_KG	J	17.1	700	4700	310	Y					0.125	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	HMX	300	UG_KG	U			5700000	380000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Iron	931	MG_KG	BE	7210	150	82000	5500	Y					2.47	16.5	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Lead	2.14	MG_KG		27.5	270	800	400	Y					0.165	1.65	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Magnesium	72.2	MG_KG		904				Y					2.96	41.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Manganese	4.43	MG_KG		37	65	2600	180	Y					0.0428	1.65	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Mercury	0.0275	MG_KG	U	0.161	1	35	2.3						0.0183	0.0549	08/25/11	METAL	7471B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Nickel	0.951	MG_KG		3.11	130	2200	150	Y					0.0329	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Perchlorate	1.05	UG_KG	U			82000	5500						0.526	2.1	08/25/11	EXPLO	6850M	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	PETN	500	UG_KG	U			160000	12000						250	1000	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Potassium	58	MG_KG		359				Y					6.75	41.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	RDX	300	UG_KG	U			28000	6000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Selenium	1.65	MG_KG	U	1.59	1.5	580	39						0.51	3.29	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Silver	0.412	MG_KG	U	0.354	3.4	580	39						0.0971	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Sodium	8.23	MG_KG	J	250				Y					4.45	41.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Tetryl	300	UG_KG	QU			160000	12000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Thallium	0.823	MG_KG	U		0.28	1.2	0.078						0.23	1.65	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Vanadium	2.99	MG_KG		17.6	6	580	39	Y					0.0757	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41D-OC-11C	FD	Zinc	0.885	MG_KG		28.6	1200	35000	2300	Y					0.313	0.823	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Aluminum	2120	MG_KG	E	12800		100000	7700	Y					2.75	14.5	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Antimony	1.45	MG_KG	U	1.87	0.9	47	3.1						0.275	2.89	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Arsenic	1.45	MG_KG	U	1.17	5.8	3	0.67						0.376	2.89	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Barium	3.97	MG_KG		36.7	580	22000	1500	Y					0.0159	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Beryllium	0.0153	MG_KG	J	0.195	63	230	16	Y					0.00882	0.0723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Cadmium	0.0203	MG_KG	J	0.2	3	98	7	Y					0.0203	0.289	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Calcium	247	MG_KG		8470				Y					2.75	36.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Chromium	1.36	MG_KG		17.4	3.8	6.3	0.3	Y					0.0419	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Cobalt	0.102	MG_KG	J	0.414	0.9	35	2.3	Y					0.0333	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Copper	0.525	MG_KG	J	17.1	700	4700	310	Y					0.11	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	HMX	300	UG_KG	U			5700000	380000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Iron	716	MG_KG	BE	7210	150	82000	5500	Y					2.17	14.5	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Lead	1.95	MG_KG		27.5	270	800	400	Y					0.145	1.45	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Magnesium	61.3	MG_KG		904				Y					2.6	36.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Manganese	4.18	MG_KG		37	65	2600	180	Y					0.0376	1.45	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Mercury	0.0288	MG_KG	U	0.161	1	35	2.3						0.0192	0.0576	08/25/11	METAL	7471B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Nickel	0.718	MG_KG	J	3.11	130	2200	150	Y					0.0289	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Perchlorate	1.06	UG_KG	U			82000	5500						0.529	2.12	08/25/11	EXPLO	6850M	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	PETN	500	UG_KG	U			160000	12000						250	1000	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Potassium	73.3	MG_KG		359				Y					5.93	36.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	RDX	300	UG_KG	U			28000	6000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Selenium	1.45	MG_KG	U	1.59	1.5	580	39						0.448	2.89	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Silver	0.362	MG_KG	U	0.354	3.4	580	39						0.0853	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Sodium	13.1	MG_KG	J	250				Y					3.91	36.2	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Tetryl	300	UG_KG	QU			160000	12000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Thallium	0.723	MG_KG	U		0.28	1.2	0.078						0.203	1.45	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Vanadium	2.27	MG_KG		17.6	6	580	39	Y					0.0665	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Inside of Crater	MR21-SS41-IC-11C	N	Zinc	0.894	MG_KG		28.6	1200	35000	2300	Y					0.275	0.723	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	08/25/11	EXPLO	8330B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Aluminum	2400	MG_KG	E	12800		100000	7700	Y					2.64	13.9	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Antimony	1.39	MG_KG	U	1.87	0.9	47	3.1						0.264	2.78	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Arsenic	1.39	MG_KG	U	1.17	5.8	3	0.67						0.362	2.78	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Barium	4.94	MG_KG		36.7	580	22000	1500	Y					0.0153	0.696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Beryllium	0.0186	MG_KG	J	0.195	63	230	16	Y					0.00849	0.0696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Cadmium	0.139	MG_KG	U	0.2	3	98	7						0.0195	0.278	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Calcium	314	MG_KG		8470				Y					2.64	34.8	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Chromium	1.52	MG_KG		17.4	3.8	6.3	0.3	Y					0.0404	0.696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Cobalt	0.12	MG_KG	J	0.414	0.9	35	2.3	Y					0.032	0.696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Copper	0.569	MG_KG	J	17.1	700	4700	310	Y					0.106	0.696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	HMX	300	UG_KG	U			5700000	380000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Iron	821	MG_KG	BE	7210	150	82000	5500	Y					2.09	13.9	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Lead	2.19	MG_KG		27.5	270	800	400	Y					0.139	1.39	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Magnesium	71.1	MG_KG		904				Y					2.5	34.8	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Manganese	6.43	MG_KG		37	65	2600	180	Y					0.0362	1.39	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Mercury	0.0279	MG_KG	U	0.161	1	35	2.3						0.0186	0.0558	08/25/11	METAL	7471B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Nickel	0.799	MG_KG		3.11	130	2200	150	Y					0.0278	0.696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	08/25/11	SVOA	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Perchlorate	1.18	UG_KG	U			82000	5500						0.59	2.36	08/25/11	EXPLO	6850M	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	PETN	500	UG_KG	U			160000	12000						250	1000	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Potassium	63.5	MG_KG		359				Y					5.71	34.8	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	RDX	300	UG_KG	U			28000	6000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Selenium	1.39	MG_KG	U	1.59	1.5	580	39						0.431	2.78	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Silver	0.348	MG_KG	U	0.354	3.4	580	39						0.0821	0.696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Sodium	9.74	MG_KG	J	250				Y					3.76	34.8	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Tetryl	300	UG_KG	QU			160000	12000						150	500	08/25/11	EXPLO	8330B	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Thallium	0.696	MG_KG	U		0.28	1.2	0.078						0.195	1.39	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Vanadium	2.63	MG_KG		17.6	6	580	39	Y					0.064	0.696	08/25/11	METAL	6010C	SO
UXO-21	ESI	Single Item/Single Detonation	Outside of Crater	MR21-SS41-OC-11C	N	Zinc	1.23	MG_KG		28.6	1200	35000	2300	Y					0.264	0.696	08/25/11	METAL	6010C	SO
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	1,3,5-Trinitrobenzene	190	UG_KG	U			3200000	220000						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	1,3-Dinitrobenzene	190	UG_KG	U			8200	620						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	2,4,6-Trinitrotoluene	190	UG_KG	U			52000	3600						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	2,4-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	2,6-Dinitrotoluene	190	UG_KG	U			3400	780						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	2-Amino-4,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	2-Nitrotoluene	190	UG_KG	U			15000	3200						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	3-Nitrotoluene	190	UG_KG	U			8200	620						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	4-Amino-2,6-dinitrotoluene	190	UG_KG	U			230000	15000						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	4-Nitrotoluene	190	UG_KG	U			140000	25000						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Aluminum	2640	MG_KG		12800		100000	7700	Y					10.3	41.1	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Antimony	1.64	MG_KG	U	1.87	0.9	47	3.1						1.03	2.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Arsenic	1.23	MG_KG	U	1.17	5.8	3	0.67						0.616	2.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Barium	6.97	MG_KG	J	36.7	580	22000	1500	Y					1.03	8.21	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Beryllium	0.411	MG_KG	U	0.195	63	230	16						0.205	1.03	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Cadmium	0.411	MG_KG	U	0.2	3	98	7						0.205	1.03	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Calcium	645	MG_KG	J	8470				Y					205	1030	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Chromium	3.2	MG_KG		17.4	3.8	6.3	0.3	Y					0.411	2.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Cobalt	2.05	MG_KG	U	0.414	0.9	35	2.3						1.03	2.57	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Copper	4.81	MG_KG		17.1	700	4700	310	Y					0.821	2.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	HMX	190	UG_KG	U			5700000	380000						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Iron	1220	MG_KG		7210	150	82000	5500	Y					6.16	20.5	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Lead	13.8	MG_KG		27.5	270	800	400	Y					0.308	1.03	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Magnesium	616	MG_KG	UN	904									205	1030	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Manganese	14.1	MG_KG		37	65	2600	180	Y					0.616	3.08	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Mercury	0.0323	MG_KG	J	0.161	1	35	2.3	Y					0.0133	0.0339	08/16/12	METAL	7471A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Nickel	0.896	MG_KG	J	3.11	130	2200	150	Y					0.616	2.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Nitrobenzene	190	UG_KG	U			22000	5100						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Nitroglycerin	476	UG_KG	U			8200	620						238	952	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Perchlorate	9.73	UG_KG	U			82000	5500						4.87	19.5	08/16/12	EXPLO	6850	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	PETN	476	UG_KG	U			160000	12000						238	952	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Potassium	616	MG_KG	XUN	359									205	1030	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	RDX	190	UG_KG	U			28000	6000						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Selenium	1.03	MG_KG	U	1.59	1.5	580	39						0.616	2.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Silver	0.411	MG_KG	U	0.354	3.4	580	39						0.205	2.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Sodium	616	MG_KG	U	250									205	1030	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Tetryl	190	UG_KG	U			160000	12000						95.2	381	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Thallium	0.821	MG_KG	U		0.28	1.2	0.078						0.616	1.64	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Vanadium	4.15	MG_KG		17.6	6	580	39	Y					1.03	2.57	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Inside of Crater	MR22-IS12-IC-12C	N	Zinc	22.2	MG_KG		28.6	1200	35000	2300	Y					1.03	4.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	2,4-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Aluminum	2940	MG_KG		12800		100000	7700	Y					10.5	42.2	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Antimony	1.69	MG_KG	U	1.87	0.9	47	3.1						1.05	2.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Arsenic	1.27	MG_KG	U	1.17	5.8	3	0.67						0.633	2.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Barium	8.38	MG_KG	J	36.7	580	22000	1500	Y					1.05	8.44	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Beryllium	0.422	MG_KG	U	0.195	63	230	16						0.211	1.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Cadmium	0.222	MG_KG	J	0.2	3	98	7	Y	Y				0.211	1.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Calcium	512	MG_KG	J	8470				Y					211	1050	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Chromium	3.69	MG_KG		17.4	3.8	6.3	0.3	Y					0.422	2.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Cobalt	2.11	MG_KG	U	0.414	0.9	35	2.3						1.05	2.64	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Copper	5.49	MG_KG		17.1	700	4700	310	Y					0.844	2.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	HMX	200	UG_KG	U			5700000	380000						100	400	08/16/12	EXPLO	8330A	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Iron	1350	MG_KG		7210	150	82000	5500	Y					6.33	21.1	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Lead	21.4	MG_KG		27.5	270	800	400	Y					0.316	1.05	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Magnesium	633	MG_KG	UN	904									211	1050	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Manganese	14.3	MG_KG		37	65	2600	180	Y					0.633	3.16	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Mercury	0.0255	MG_KG	J	0.161	1	35	2.3	Y					0.015	0.038	08/16/12	METAL	7471A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Nickel	1.01	MG_KG	J	3.11	130	2200	150	Y					0.633	2.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Perchlorate	9.12	UG_KG	U			82000	5500						4.56	18.2	08/16/12	EXPLO	6850	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	PETN	500	UG_KG	U			160000	12000						250	1000	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Potassium	633	MG_KG	XUN	359									211	1050	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	RDX	200	UG_KG	U			28000	6000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Selenium	1.05	MG_KG	U	1.59	1.5	580	39						0.633	2.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Silver	0.422	MG_KG	U	0.354	3.4	580	39						0.211	2.11	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Sodium	633	MG_KG	U	250									211	1050	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Tetryl	200	UG_KG	U			160000	12000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Thallium	0.844	MG_KG	U		0.28	1.2	0.078						0.633	1.69	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Vanadium	4.44	MG_KG		17.6	6	580	39	Y					1.05	2.64	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OC-12C	N	Zinc	28.7	MG_KG		28.6	1200	35000	2300	Y					1.05	4.22	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	1,3,5-Trinitrobenzene	200	UG_KG	U			3200000	220000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	1,3-Dinitrobenzene	200	UG_KG	U			8200	620						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	2,4,6-Trinitrotoluene	200	UG_KG	U			52000	3600						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	2,4-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	2,6-Dinitrotoluene	200	UG_KG	U			3400	780						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	2-Amino-4,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	2-Nitrotoluene	200	UG_KG	U			15000	3200						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	3-Nitrotoluene	200	UG_KG	U			8200	620						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	4-Amino-2,6-dinitrotoluene	200	UG_KG	U			230000	15000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	4-Nitrotoluene	200	UG_KG	U			140000	25000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Aluminum	3930	MG_KG		12800		100000	7700	Y					11.2	44.7	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Antimony	1.79	MG_KG	U	1.87	0.9	47	3.1						1.12	2.23	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Arsenic	1.34	MG_KG	U	1.17	5.8	3	0.67						0.67	2.23	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Barium	8.41	MG_KG	J	36.7	580	22000	1500	Y					1.12	8.94	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Beryllium	0.447	MG_KG	U	0.195	63	230	16						0.223	1.12	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Cadmium	0.357	MG_KG	J	0.2	3	98	7	Y	Y				0.223	1.12	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Calcium	617	MG_KG	J	8470				Y					223	1120	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Chromium	5.07	MG_KG		17.4	3.8	6.3	0.3	Y					0.447	2.23	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Cobalt	2.23	MG_KG	U	0.414	0.9	35	2.3						1.12	2.79	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Copper	5.55	MG_KG		17.1	700	4700	310	Y					0.894	2.23	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	HMX	200	UG_KG	U			5700000	380000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Iron	1910	MG_KG		7210	150	82000	5500	Y					6.7	22.3	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Lead	22.5	MG_KG		27.5	270	800	400	Y					0.335	1.12	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Magnesium	670	MG_KG	UN	904									223	1120	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Manganese	16.5	MG_KG		37	65	2600	180	Y					0.67	3.35	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Mercury	0.0274	MG_KG	J	0.161	1	35	2.3	Y					0.016	0.0406	08/16/12	METAL	7471A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Nickel	1.53	MG_KG	J	3.11	130	2200	150	Y					0.67	2.23	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Nitrobenzene	200	UG_KG	U			22000	5100						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Nitroglycerin	500	UG_KG	U			8200	620						250	1000	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Perchlorate	9.29	UG_KG	U			82000	5500						4.65	18.6	08/16/12	EXPLO	6850	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	PETN	500	UG_KG	U			160000	12000						250	1000	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Potassium	670	MG_KG	XUN	359									223	1120	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	RDX	200	UG_KG	U			28000	6000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Selenium	1.12	MG_KG	U	1.59	1.5	580	39						0.67	2.23	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Silver	0.447	MG_KG	U	0.354	3.4	580	39						0.223	2.23	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Sodium	670	MG_KG	U	250									223	1120	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Tetryl	200	UG_KG	U			160000	12000						100	400	08/16/12	EXPLO	8330A	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Thallium	0.894	MG_KG	U		0.28	1.2	0.078						0.67	1.79	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Vanadium	5.91	MG_KG		17.6	6	580	39	Y					1.12	2.79	08/16/12	METAL	6010C	SS
UXO-22	Site 6 SI	Multiple Items/Single Detonation	Outside of Crater	MR22-IS12-OCD-12C	FD	Zinc	37	MG_KG		28.6	1200	35000	2300	Y					1.12	4.47	08/16/12	METAL	6010C	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	1,3,5-Trinitrobenzene	100	UG_KG	U			3200000	220000						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	1,3-Dinitrobenzene	100	UG_KG	U			8200	620						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	2,4,6-Trinitrotoluene	100	UG_KG	U			52000	3600						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	2,4-Dinitrotoluene	100	UG_KG	U			3400	780						55	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	2,6-Dinitrotoluene	100	UG_KG	U			3400	780						56	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	2-Amino-4,6-dinitrotoluene	100	UG_KG	U			230000	15000						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	2-Nitrotoluene	100	UG_KG	U			15000	3200						76	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	3,5-Dinitroaniline	200	UG_KG	U										94	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	3-Nitrotoluene	100	UG_KG	U			8200	620						95	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	4-Amino-2,6-dinitrotoluene	100	UG_KG	U			230000	15000						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	4-Nitrotoluene	100	UG_KG	U			140000	25000						99	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Aluminum	1350	MG_KG		12800		100000	7700	Y					5.21	104	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Antimony	0.208	MG_KG	U	1.87	0.9	47	3.1						0.104	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Arsenic	0.755	MG_KG		1.17	5.8	3	0.67	Y					0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Barium	3.78	MG_KG		36.7	580	22000	1500	Y					0.075	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Beryllium	0.104	MG_KG	U	0.195	63	230	16						0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Cadmium	0.104	MG_KG	U	0.2	3	98	7						0.0594	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Calcium	67.2	MG_KG	J	8470				Y					17.7	104	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Chromium	3.1	MG_KG		17.4	3.8	6.3	0.3	Y					0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Chromium (hexavalent)	0.0213	MG_KG	U	2.73	3.8	6.3	0.3						0.0138	0.106	08/22/13	METAL	7199	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Cobalt	0.251	MG_KG	J	0.414	0.9	35	2.3	Y					0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Copper	8.93	MG_KG		17.1	700	4700	310	Y					0.104	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Cyanide	0.2098	MG_KG	U			13	2.1						0.1154	1.049	08/22/13	METAL	9014	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	HMX	100	UG_KG	U			5700000	380000						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Iron	1670	MG_KG		7210	150	82000	5500	Y					5.21	104	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Lead	9.51	MG_KG		27.5	270	800	400	Y					0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Magnesium	32.7	MG_KG	J	904				Y					10.4	104	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Manganese	2.56	MG_KG		37	65	2600	180	Y					0.159	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Mercury	0.0209	MG_KG	U	0.161	1	35	2.3						0.0105	0.105	08/22/13	METAL	7471A	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Nickel	0.557	MG_KG		3.11	130	2200	150	Y					0.0656	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Nitrobenzene	100	UG_KG	U			22000	5100						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Nitroglycerin	250	UG_KG	U			8200	620						120	1000	08/22/13	EXPLO	8332	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Perchlorate	2.13	UG_KG	U			82000	5500						1.06	10.6	08/22/13	EXPLO	6850	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	PETN	250	UG_KG	U			160000	12000						120	1000	08/22/13	EXPLO	8332	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Potassium	59.8	MG_KG	J	359				Y					10.4	104	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	RDX	100	UG_KG	U			28000	6000						50	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Selenium	0.339	MG_KG	J	1.59	1.5	580	39	Y					0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Silver	0.104	MG_KG	U	0.354	3.4	580	39						0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Sodium	20.8	MG_KG	U	250									10.4	104	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Tetryl	100	UG_KG	U			160000	12000						57	400	08/22/13	EXPLO	8330	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Thallium	0.104	MG_KG	U		0.28	1.2	0.078						0.0521	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Vanadium	5.23	MG_KG		17.6	6	580	39	Y					0.198	0.521	08/22/13	METAL	6020	SS
UXO-24	PA/SI	Multiple Items/Single Detonation	Inside of Crater	MR24-SS09-13C	N	Zinc	6.2	MG_KG		28.6	1200	35000	2300	Y					0.711	2.08	08/22/13	METAL	6020	SS
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	02/22/12	SVOA	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	02/22/12	SVOA	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Aluminum	3440	MG_KG		12800		100000	7700	Y					27.5	145	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Antimony	1.45	MG_KG	UJ	1.87	0.9	47	3.1						0.275	2.89	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Arsenic	0.418	MG_KG	J	1.17	5.8	3	0.67	Y					0.376	2.89	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Barium	8.91	MG_KG		36.7	580	22000	1500	Y					0.0159	0.723	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Beryllium	0.0585	MG_KG	J	0.195	63	230	16	Y					0.00882	0.0723	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Cadmium	0.0954	MG_KG	J	0.2	3	98	7	Y					0.0203	0.145	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Calcium	1920	MG_KG		8470				Y					27.5	362	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Chromium	3.09	MG_KG		17.4	3.8	6.3	0.3	Y					0.042	0.723	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Cobalt	0.142	MG_KG	J	0.414	0.9	35	2.3	Y					0.0333	0.723	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Copper	1.56	MG_KG	J	17.1	700	4700	310	Y					0.11	0.723	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	HMX	300	UG_KG	U			5700000	380000						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Iron	975	MG_KG	J	7210	150	82000	5500	Y					21.7	145	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Lead	9.04	MG_KG		27.5	270	800	400	Y					0.145	1.45	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Magnesium	95.9	MG_KG		904				Y					2.6	36.2	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Manganese	4.43	MG_KG		37	65	2600	180	Y					0.0376	1.45	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Mercury	0.0239	MG_KG	J	0.161	1	35	2.3	Y					0.013	0.0569	02/22/12	METAL	7471B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Nickel	0.541	MG_KG	J	3.11	130	2200	150	Y					0.0289	0.723	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	02/22/12	SVOA	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Perchlorate	1.18	UG_KG	U			82000	5500						0.592	2.37	02/22/12	EXPLO	6850M	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	PETN	500	UG_KG	U			160000	12000						250	2000	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Potassium	55.3	MG_KG	J	359				Y					5.93	72.3	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	RDX	300	UG_KG	U			28000	6000						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Selenium	1.45	MG_KG	U	1.59	1.5	580	39						0.448	2.89	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Silver	0.362	MG_KG	U	0.354	3.4	580	39						0.0854	0.723	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Sodium	16	MG_KG	J	250				Y					3.91	36.2	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Tetryl	300	UG_KG	U			160000	12000						150	500	02/22/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Thallium	0.723	MG_KG	U		0.28	1.2	0.078						0.203	1.45	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Vanadium	3.57	MG_KG		17.6	6	580	39	Y					0.0665	1.45	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Inside of Crater	MR26-SS17-IC-12A	N	Zinc	93.1	MG_KG		28.6	1200	35000	2300	Y	Y				2.75	14.5	02/22/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	03/08/12	SVOA	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	03/08/12	SVOA	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Aluminum	3700	MG_KG		12800		100000	7700	Y					30.3	159	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Antimony	1.59	MG_KG	UJ	1.87	0.9	47	3.1						0.303	3.18	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Arsenic	1.59	MG_KG	U	1.17	5.8	3	0.67						0.414	3.18	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Barium	10	MG_KG		36.7	580	22000	1500	Y					0.0175	0.796	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Beryllium	0.0603	MG_KG	J	0.195	63	230	16	Y					0.00971	0.0796	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Cadmium	0.109	MG_KG	J	0.2	3	98	7	Y					0.0223	0.159	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Calcium	1680	MG_KG		8470				Y					30.3	398	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Chromium	3.38	MG_KG		17.4	3.8	6.3	0.3	Y					0.0462	0.796	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Cobalt	0.398	MG_KG	U	0.414	0.9	35	2.3						0.0366	0.796	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Copper	1.38	MG_KG		17.1	700	4700	310	Y					0.121	0.796	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	HMX	300	UG_KG	U			5700000	380000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Iron	1300	MG_KG		7210	150	82000	5500	Y					23.9	159	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Lead	10.8	MG_KG		27.5	270	800	400	Y					0.159	1.59	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Magnesium	101	MG_KG		904				Y					2.87	39.8	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Manganese	6.42	MG_KG		37	65	2600	180	Y					0.0414	1.59	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Mercury	0.0028	MG_KG	J	0.161	1	35	2.3	Y					0.00218	0.0186	03/08/12	METAL	7471B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Nickel	0.593	MG_KG	J	3.11	130	2200	150	Y					0.0318	0.796	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	03/08/12	SVOA	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Perchlorate	1.14	UG_KG	U			82000	5500						0.572	2.29	03/08/12	EXPLO	6850M	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	PETN	500	UG_KG	U			160000	12000						250	2000	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Potassium	56.1	MG_KG	J	359				Y					6.53	79.6	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	RDX	300	UG_KG	U			28000	6000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Selenium	0.536	MG_KG	J	1.59	1.5	580	39	Y					0.494	3.18	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Silver	0.398	MG_KG	U	0.354	3.4	580	39						0.094	0.796	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Sodium	9.95	MG_KG	U	250									4.3	39.8	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Tetryl	300	UG_KG	U			160000	12000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Thallium	0.796	MG_KG	U		0.28	1.2	0.078						0.223	1.59	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Vanadium	4.68	MG_KG		17.6	6	580	39	Y					0.0733	1.59	03/08/12	METAL	6010C	SO
UXO-26	WE32 Utility Corridor	Multiple Items/Single Detonation	Outside of Crater	MR26-SS17-OC-12A	N	Zinc	86.4	MG_KG	J	28.6	1200	35000	2300	Y	Y				3.03	15.9	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	02/02/12	SVOA	8330B	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	02/02/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Aluminum	2310	MG_KG	J	12800		100000	7700	Y					31.9	168	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Antimony	5.2	MG_KG	J	1.87	0.9	47	3.1	Y	Y	Y		Y	0.319	3.36	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Arsenic	0.534	MG_KG	J	1.17	5.8	3	0.67	Y					0.437	3.36	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Barium	14	MG_KG		36.7	580	22000	1500	Y					0.0185	0.84	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Beryllium	0.0357	MG_KG	J	0.195	63	230	16	Y					0.0103	0.084	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Cadmium	0.138	MG_KG	J	0.2	3	98	7	Y					0.0235	0.168	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Calcium	401	MG_KG		8470				Y					3.19	42	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Chromium	3.58	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.0487	0.84	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Cobalt	0.165	MG_KG	J	0.414	0.9	35	2.3	Y					0.0387	0.84	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Copper	81.5	MG_KG	J	17.1	700	4700	310	Y	Y				0.128	0.84	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	HMX	300	UG_KG	U			5700000	380000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Iron	1380	MG_KG		7210	150	82000	5500	Y					25.2	168	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Lead	470	MG_KG	J	27.5	270	800	400	Y	Y	Y		Y	1.68	16.8	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Magnesium	46.4	MG_KG		904				Y					3.03	42	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Manganese	2.35	MG_KG		37	65	2600	180	Y					0.0437	1.68	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Mercury	0.0258	MG_KG		0.161	1	35	2.3	Y					0.0022	0.0188	02/02/12	METAL	7471B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Nickel	0.613	MG_KG	J	3.11	130	2200	150	Y					0.0336	0.84	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	02/02/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Perchlorate	1.14	UG_KG	U			82000	5500						0.57	2.28	02/02/12	EXPLO	6850M	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	PETN	500	UG_KG	U			160000	12000						250	2000	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Potassium	41.5	MG_KG	J	359				Y					6.89	84	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	RDX	300	UG_KG	U			28000	6000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Selenium	1.68	MG_KG	U	1.59	1.5	580	39						0.521	3.36	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Silver	0.42	MG_KG	U	0.354	3.4	580	39						0.0992	0.84	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Sodium	15.6	MG_KG	J	250				Y					4.54	42	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Tetryl	300	UG_KG	U			160000	12000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Thallium	0.84	MG_KG	U		0.28	1.2	0.078						0.235	1.68	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Vanadium	2.59	MG_KG		17.6	6	580	39	Y					0.0773	1.68	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16D-IC-12A	FD	Zinc	32.6	MG_KG		28.6	1200	35000	2300	Y	Y				0.319	1.68	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	03/08/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	03/08/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Aluminum	3500	MG_KG		12800		100000	7700	Y					36.7	193	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Antimony	1.93	MG_KG	UJ	1.87	0.9	47	3.1						0.367	3.86	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Arsenic	0.524	MG_KG	J	1.17	5.8	3	0.67	Y					0.502	3.86	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Barium	9.4	MG_KG	J	36.7	580	22000	1500	Y					0.0212	0.966	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Beryllium	0.0527	MG_KG	J	0.195	63	230	16	Y					0.0118	0.0966	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Cadmium	0.122	MG_KG	J	0.2	3	98	7	Y					0.027	0.193	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Calcium	1520	MG_KG		8470				Y					36.7	483	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Chromium	3.13	MG_KG		17.4	3.8	6.3	0.3	Y					0.056	0.966	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Cobalt	0.483	MG_KG	U	0.414	0.9	35	2.3						0.0444	0.966	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Copper	2.63	MG_KG	J	17.1	700	4700	310	Y					0.147	0.966	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	HMX	300	UG_KG	U			5700000	380000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Iron	1110	MG_KG		7210	150	82000	5500	Y					29	193	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Lead	9.96	MG_KG		27.5	270	800	400	Y					0.193	1.93	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Magnesium	91.2	MG_KG		904				Y					3.48	48.3	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Manganese	4.65	MG_KG		37	65	2600	180	Y					0.0502	1.93	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Mercury	0.016	MG_KG	J	0.161	1	35	2.3	Y					0.00216	0.0185	03/08/12	METAL	7471B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Nickel	0.561	MG_KG	J	3.11	130	2200	150	Y					0.0386	0.966	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	03/08/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Perchlorate	1.13	UG_KG	U			82000	5500						0.566	2.27	03/08/12	EXPLO	6850M	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	PETN	500	UG_KG	U			160000	12000						250	2000	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Potassium	52.1	MG_KG	J	359				Y					7.92	96.6	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	RDX	300	UG_KG	U			28000	6000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Selenium	0.79	MG_KG	J	1.59	1.5	580	39	Y					0.599	3.86	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Silver	0.483	MG_KG	U	0.354	3.4	580	39						0.114	0.966	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Sodium	12.3	MG_KG	J	250				Y					5.21	48.3	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Tetryl	300	UG_KG	U			160000	12000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Thallium	0.966	MG_KG	U		0.28	1.2	0.078						0.27	1.93	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Vanadium	3.91	MG_KG		17.6	6	580	39	Y					0.0888	1.93	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16D-OC-12A	FD	Zinc	84	MG_KG	J	28.6	1200	35000	2300	Y	Y				0.367	1.93	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	02/02/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	02/02/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Aluminum	2430	MG_KG	J	12800		100000	7700	Y					36.2	191	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Antimony	4.26	MG_KG	J	1.87	0.9	47	3.1	Y	Y	Y		Y	0.362	3.81	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Arsenic	0.776	MG_KG	J	1.17	5.8	3	0.67	Y					0.496	3.81	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Barium	11	MG_KG		36.7	580	22000	1500	Y					0.021	0.953	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Beryllium	0.0432	MG_KG	J	0.195	63	230	16	Y					0.0116	0.0953	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Cadmium	0.102	MG_KG	J	0.2	3	98	7	Y					0.0267	0.191	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Calcium	395	MG_KG		8470				Y					3.62	47.7	02/02/12	METAL	6010C	SO

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Chromium	2.22	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.0553	0.953	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Cobalt	0.135	MG_KG	J	0.414	0.9	35	2.3	Y					0.0439	0.953	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Copper	64.1	MG_KG	J	17.1	700	4700	310	Y	Y				0.145	0.953	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	HMX	300	UG_KG	U			5700000	380000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Iron	1260	MG_KG		7210	150	82000	5500	Y					28.6	191	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Lead	371	MG_KG	J	27.5	270	800	400	Y	Y	Y			1.91	19.1	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Magnesium	55.3	MG_KG		904				Y					3.43	47.7	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Manganese	2.07	MG_KG		37	65	2600	180	Y					0.0496	1.91	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Mercury	0.025	MG_KG		0.161	1	35	2.3	Y					0.00201	0.0171	02/02/12	METAL	7471B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Nickel	0.56	MG_KG	J	3.11	130	2200	150	Y					0.0381	0.953	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	02/02/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Perchlorate	1.17	UG_KG	U			82000	5500						0.584	2.34	02/02/12	EXPLO	6850M	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	PETN	500	UG_KG	U			160000	12000						250	2000	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Potassium	51.3	MG_KG	J	359				Y					7.82	95.3	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	RDX	300	UG_KG	U			28000	6000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Selenium	1.91	MG_KG	U	1.59	1.5	580	39						0.591	3.81	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Silver	0.477	MG_KG	U	0.354	3.4	580	39						0.113	0.953	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Sodium	20.6	MG_KG	J	250				Y					5.15	47.7	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Tetryl	300	UG_KG	U			160000	12000						150	500	02/02/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Thallium	0.953	MG_KG	U		0.28	1.2	0.078						0.267	1.91	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Vanadium	2.75	MG_KG		17.6	6	580	39	Y					0.0877	1.91	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Inside of Crater	MR26-SS16-IC-12A	N	Zinc	24	MG_KG		28.6	1200	35000	2300	Y					0.362	1.91	02/02/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	1,3,5-Trinitrobenzene	300	UG_KG	U			3200000	220000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	1,3-Dinitrobenzene	300	UG_KG	U			8200	620						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	2,4,6-Trinitrotoluene	300	UG_KG	U			52000	3600						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	2,4-Dinitrotoluene	300	UG_KG	U		1.6	3400	780						150	500	03/08/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	2,6-Dinitrotoluene	300	UG_KG	U			3400	780						150	500	03/08/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	2-Amino-4,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	2-Nitrotoluene	300	UG_KG	U			15000	3200						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	3-Nitrotoluene	300	UG_KG	U			8200	620						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	4-Amino-2,6-dinitrotoluene	300	UG_KG	U			230000	15000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	4-Nitrotoluene	300	UG_KG	U			140000	25000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Aluminum	3450	MG_KG		12800		100000	7700	Y					30.1	158	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Antimony	1.58	MG_KG	UJ	1.87	0.9	47	3.1						0.301	3.17	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Arsenic	1.58	MG_KG	U	1.17	5.8	3	0.67						0.412	3.17	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Barium	14.6	MG_KG	J	36.7	580	22000	1500	Y					0.0174	0.792	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Beryllium	0.0561	MG_KG	J	0.195	63	230	16	Y					0.00966	0.0792	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Cadmium	0.139	MG_KG	J	0.2	3	98	7	Y					0.0222	0.158	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Calcium	1500	MG_KG		8470				Y					30.1	396	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Chromium	3.05	MG_KG		17.4	3.8	6.3	0.3	Y					0.0459	0.792	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Cobalt	0.396	MG_KG	U	0.414	0.9	35	2.3						0.0364	0.792	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Copper	1.5	MG_KG	J	17.1	700	4700	310	Y					0.12	0.792	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	HMX	300	UG_KG	U			5700000	380000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Iron	1020	MG_KG		7210	150	82000	5500	Y					23.7	158	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Lead	9.72	MG_KG		27.5	270	800	400	Y					0.158	1.58	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Magnesium	90.1	MG_KG		904				Y					2.85	39.6	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Manganese	5.15	MG_KG		37	65	2600	180	Y					0.0412	1.58	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Mercury	0.0184	MG_KG		0.161	1	35	2.3	Y					0.00186	0.0158	03/08/12	METAL	7471B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Nickel	0.561	MG_KG	J	3.11	130	2200	150	Y					0.0317	0.792	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Nitrobenzene	300	UG_KG	U			22000	5100						150	500	03/08/12	SVOA	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Nitroglycerin	1000	UG_KG	U			8200	620						500	2000	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Perchlorate	1.15	UG_KG	U			82000	5500						0.573	2.29	03/08/12	EXPLO	6850M	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	PETN	500	UG_KG	U			160000	12000						250	2000	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Potassium	53.6	MG_KG	J	359				Y					6.49	79.2	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	RDX	300	UG_KG	U			28000	6000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Selenium	0.617	MG_KG	J	1.59	1.5	580	39	Y					0.491	3.17	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Silver	0.396	MG_KG	U	0.354	3.4	580	39						0.0934	0.792	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Sodium	14.3	MG_KG	J	250				Y					4.27	39.6	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Tetryl	300	UG_KG	U			160000	12000						150	500	03/08/12	EXPLO	8330B	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Thallium	0.792	MG_KG	U		0.28	1.2	0.078						0.222	1.58	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Vanadium	3.71	MG_KG		17.6	6	580	39	Y					0.0728	1.58	03/08/12	METAL	6010C	SO
UXO-26	ESI	Multiple Items/Single Detonation	Outside of Crater	MR26-SS16-OC-12A	N	Zinc	92	MG_KG	J	28.6	1200	35000	2300	Y	Y				3.01	15.8	03/08/12	METAL	6010C	SO
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	1,3-Dinitrobenzene	128	UG_KG	U			8200	620						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	2,4-Dinitrotoluene	128	UG_KG	U			3400	780						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	2,6-Dinitrotoluene	128	UG_KG	U			3400	780						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Aluminum	2060	MG_KG		12800		100000	7700	Y					3.47	28.9	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Antimony	2.89	MG_KG	UJ	1.87	0.9	47	3.1						0.709	5.78	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Arsenic	1.45	MG_KG	U	1.17	5.8	3	0.67						0.405	2.89	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Barium	2.8	MG_KG	J	36.7	580	22000	1500	Y					0.0318	0.723	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Beryllium	0.0188	MG_KG	J	0.195	63	230	16	Y					0.00882	0.0723	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Cadmium	0.145	MG_KG	U	0.2	3	98	7						0.026	0.289	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Calcium	73	MG_KG		8470				Y					1.88	36.2	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Chromium	1.74	MG_KG		17.4	3.8	6.3	0.3	Y					0.0521	0.723	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Chromium (hexavalent)	0.21	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/15/2013 11:20	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Cobalt	0.111	MG_KG	J	0.414	0.9	35	2.3	Y					0.0506	0.723	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Copper	0.422	MG_KG	J	17.1	700	4700	310	Y					0.114	0.723	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	HMX	128	UG_KG	U			5700000	380000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Iron	724	MG_KG	J	7210	150	82000	5500	Y					2.46	7.23	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Lead	2.88	MG_KG	J	27.5	270	800	400	Y					0.159	2.89	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Magnesium	33.5	MG_KG	J	904				Y					1.24	36.2	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Manganese	1.23	MG_KG	J	37	65	2600	180	Y					0.0159	1.45	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Mercury	0.0109	MG_KG	U	0.161	1	35	2.3						0.00363	0.0196	11/15/2013 11:20	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Nickel	0.525	MG_KG	J	3.11	130	2200	150	Y					0.0492	0.723	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Nitroglycerin	168	UG_KG	U			8200	620						84	400	11/15/2013 11:20	EXPLO	8330B	SS

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Perchlorate	1.05	UG_KG	U			82000	5500						0.525	2.1	11/15/2013 11:20	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	PETN	128	UG_KG	U			160000	12000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Potassium	42.8	MG_KG	J	359				Y					7.09	72.3	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	RDX	128	UG_KG	U			28000	6000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Selenium	1.45	MG_KG	U	1.59	1.5	580	39						0.463	2.89	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Silver	0.362	MG_KG	U	0.354	3.4	580	39						0.133	0.723	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Sodium	18.1	MG_KG	U	250									4.34	36.2	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Tetryl	128	UG_KG	U			160000	12000						64	200	11/15/2013 11:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Thallium	1.45	MG_KG	U		0.28	1.2	0.078						0.333	2.89	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Vanadium	2.26	MG_KG		17.6	6	580	39	Y					0.0564	1.45	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01D-OC-13D	FD	Zinc	0.768	MG_KG	J	28.6	1200	35000	2300	Y					0.304	1.45	11/15/2013 11:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	1,3-Dinitrobenzene	128	UG_KG	U			8200	620						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	2,4-Dinitrotoluene	128	UG_KG	U			3400	780						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	2,6-Dinitrotoluene	128	UG_KG	U			3400	780						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Aluminum	2320	MG_KG		12800		100000	7700	Y					3.14	26.1	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Antimony	2.61	MG_KG	UJ	1.87	0.9	47	3.1						0.641	5.23	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Arsenic	1.31	MG_KG	U	1.17	5.8	3	0.67						0.366	2.61	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Barium	2.06	MG_KG		36.7	580	22000	1500	Y					0.0288	0.654	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Beryllium	0.0192	MG_KG	J	0.195	63	230	16	Y					0.00798	0.0654	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Cadmium	0.131	MG_KG	U	0.2	3	98	7						0.0235	0.261	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Calcium	49.9	MG_KG		8470				Y					1.7	32.7	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Chromium	1.97	MG_KG		17.4	3.8	6.3	0.3	Y					0.0471	0.654	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Chromium (hexavalent)	0.28	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/15/2013 11:00	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Cobalt	0.12	MG_KG	J	0.414	0.9	35	2.3	Y					0.0458	0.654	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Copper	0.443	MG_KG	J	17.1	700	4700	310	Y					0.103	0.654	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	HMX	128	UG_KG	U			5700000	380000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Iron	779	MG_KG	J	7210	150	82000	5500	Y					2.22	6.54	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Lead	2.24	MG_KG	J	27.5	270	800	400	Y					0.144	2.61	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Magnesium	38.2	MG_KG		904				Y					1.12	32.7	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Manganese	1.21	MG_KG	J	37	65	2600	180	Y					0.0144	1.31	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Mercury	0.0106	MG_KG	U	0.161	1	35	2.3						0.00354	0.0191	11/15/2013 11:00	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Nickel	0.672	MG_KG		3.11	130	2200	150	Y					0.0445	0.654	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Nitroglycerin	167	UG_KG	U			8200	620						83.7	399	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Perchlorate	1.06	UG_KG	U			82000	5500						0.53	2.12	11/15/2013 11:00	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	PETN	128	UG_KG	U			160000	12000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Potassium	49.9	MG_KG	J	359				Y					6.41	65.4	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	RDX	128	UG_KG	U			28000	6000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Selenium	1.31	MG_KG	U	1.59	1.5	580	39						0.418	2.61	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Silver	0.327	MG_KG	U	0.354	3.4	580	39						0.12	0.654	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Sodium	6.05	MG_KG	J	250				Y					3.92	32.7	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Tetryl	128	UG_KG	U			160000	12000						63.8	199	11/15/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Thallium	1.31	MG_KG	U		0.28	1.2	0.078						0.301	2.61	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Vanadium	2.45	MG_KG		17.6	6	580	39	Y					0.051	1.31	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS01-IC-13D	N	Zinc	1.06	MG_KG	J	28.6	1200	35000	2300	Y					0.275	1.31	11/15/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	U			8200	620						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	U			3400	780						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	U			3400	780						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Aluminum	1940	MG_KG		12800		100000	7700	Y					3.58	29.9	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Antimony	2.99	MG_KG	UJ	1.87	0.9	47	3.1						0.732	5.97	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Arsenic	1.49	MG_KG	U	1.17	5.8	3	0.67						0.418	2.99	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Barium	1.87	MG_KG	J	36.7	580	22000	1500	Y					0.0328	0.747	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Beryllium	0.0147	MG_KG	J	0.195	63	230	16	Y					0.00911	0.0747	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Cadmium	0.149	MG_KG	U	0.2	3	98	7						0.0269	0.299	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Calcium	56.4	MG_KG		8470				Y					1.94	37.3	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Chromium	1.67	MG_KG		17.4	3.8	6.3	0.3	Y					0.0538	0.747	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Chromium (hexavalent)	0.23	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.07	0.42	11/15/2013 11:15	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Cobalt	0.0903	MG_KG	J	0.414	0.9	35	2.3	Y					0.0523	0.747	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Copper	0.394	MG_KG	J	17.1	700	4700	310	Y					0.118	0.747	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Iron	694	MG_KG	J	7210	150	82000	5500	Y					2.54	7.47	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Lead	2.02	MG_KG	J	27.5	270	800	400	Y					0.164	2.99	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Magnesium	32.6	MG_KG	J	904				Y					1.28	37.3	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Manganese	1.29	MG_KG	J	37	65	2600	180	Y					0.0164	1.49	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Mercury	0.0124	MG_KG	U	0.161	1	35	2.3						0.00413	0.0223	11/15/2013 11:15	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Nickel	0.494	MG_KG	J	3.11	130	2200	150	Y					0.0508	0.747	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Nitroglycerin	168	UG_KG	U			8200	620						83.9	400	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Perchlorate	1.05	UG_KG	U			82000	5500						0.525	2.1	11/15/2013 11:15	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	PETN	128	UG_KG	U			160000	12000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Potassium	40.2	MG_KG	J	359				Y					7.32	74.7	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	RDX	128	UG_KG	U			28000	6000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Selenium	1.49	MG_KG	U	1.59	1.5	580	39						0.478	2.99	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Silver	0.373	MG_KG	U	0.354	3.4	580	39						0.137	0.747	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Sodium	18.7	MG_KG	U	250									4.48	37.3	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						63.9	200	11/15/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Thallium	1.49	MG_KG	U		0.28	1.2	0.078						0.343	2.99	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Vanadium	2.21	MG_KG		17.6	6	580	39	Y					0.0582	1.49	11/15/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS01-OC-13D	N	Zinc	0.877	MG_KG	J	28.6	1200	35000	2300	Y					0.314	1.49	11/15/2013 11:15	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	1,3-Dinitrobenzene	128	UG_KG	U			8200	620						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	2,4-Dinitrotoluene	128	UG_KG	U			3400	780						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	2,6-Dinitrotoluene	128	UG_KG	U			3400	780						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Aluminum	1990	MG_KG		12800		100000	7700	Y					3.22	26.9	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Antimony	2.69	MG_KG	UJ	1.87	0.9	47	3.1						0.658	5.37	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Arsenic	1.34	MG_KG	U	1.17	5.8	3	0.67						0.376	2.69	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Barium	1.9	MG_KG		36.7	580	22000	1500	Y					0.0295	0.672	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Beryllium	0.0159	MG_KG	J	0.195	63	230	16	Y					0.00819	0.0672	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Cadmium	0.134	MG_KG	U	0.2	3	98	7						0.0242	0.269	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Calcium	76.3	MG_KG		8470				Y					1.75	33.6	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Chromium	1.68	MG_KG		17.4	3.8	6.3	0.3	Y					0.0484	0.672	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Chromium (hexavalent)	0.19	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/15/2013 11:45	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Cobalt	0.0892	MG_KG	J	0.414	0.9	35	2.3	Y					0.047	0.672	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Copper	0.391	MG_KG	J	17.1	700	4700	310	Y					0.106	0.672	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Iron	700	MG_KG	J	7210	150	82000	5500	Y					2.28	6.72	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Lead	1.95	MG_KG	J	27.5	270	800	400	Y					0.148	2.69	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Magnesium	36.5	MG_KG		904				Y					1.15	33.6	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Manganese	1.27	MG_KG	J	37	65	2600	180	Y					0.0148	1.34	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Mercury	0.0123	MG_KG	U	0.161	1	35	2.3						0.00409	0.022	11/15/2013 11:45	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Nickel	0.497	MG_KG	J	3.11	130	2200	150	Y					0.0457	0.672	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Nitroglycerin	168	UG_KG	U			8200	620						84	400	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Perchlorate	1.05	UG_KG	U			82000	5500						0.526	2.1	11/15/2013 11:45	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	PETN	128	UG_KG	U			160000	12000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Potassium	47.1	MG_KG	J	359				Y					6.58	67.2	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Selenium	1.34	MG_KG	U	1.59	1.5	580	39						0.43	2.69	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Silver	0.336	MG_KG	U	0.354	3.4	580	39						0.124	0.672	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Sodium	16.8	MG_KG	U	250									4.03	33.6	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/15/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Thallium	1.34	MG_KG	U		0.28	1.2	0.078						0.309	2.69	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Vanadium	2.16	MG_KG		17.6	6	580	39	Y					0.0524	1.34	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS02-IC-13D	N	Zinc	0.762	MG_KG	J	28.6	1200	35000	2300	Y					0.282	1.34	11/15/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	U			8200	620						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	U			3400	780						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	U			3400	780						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Aluminum	2150	MG_KG		12800		100000	7700	Y					3.44	28.7	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Antimony	2.87	MG_KG	UJ	1.87	0.9	47	3.1						0.703	5.74	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Arsenic	1.44	MG_KG	U	1.17	5.8	3	0.67						0.402	2.87	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Barium	1.96	MG_KG		36.7	580	22000	1500	Y					0.0316	0.718	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Beryllium	0.0184	MG_KG	J	0.195	63	230	16	Y					0.00875	0.0718	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Cadmium	0.144	MG_KG	U	0.2	3	98	7						0.0258	0.287	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Calcium	118	MG_KG		8470				Y					1.87	35.9	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Chromium	1.81	MG_KG		17.4	3.8	6.3	0.3	Y					0.0517	0.718	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Chromium (hexavalent)	0.65	MG_KG		2.73	3.8	6.3	0.3	Y					0.07	0.45	11/15/2013 12:00	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Cobalt	0.0917	MG_KG	J	0.414	0.9	35	2.3	Y					0.0502	0.718	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Copper	0.439	MG_KG	J	17.1	700	4700	310	Y					0.113	0.718	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Iron	756	MG_KG	J	7210	150	82000	5500	Y					2.44	7.18	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Lead	2.16	MG_KG	J	27.5	270	800	400	Y					0.158	2.87	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Magnesium	39.5	MG_KG		904				Y					1.23	35.9	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Manganese	1.87	MG_KG		37	65	2600	180	Y					0.0158	1.44	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Mercury	0.0123	MG_KG	U	0.161	1	35	2.3						0.00409	0.022	11/15/2013 12:00	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Nickel	0.539	MG_KG	J	3.11	130	2200	150	Y					0.0488	0.718	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Nitroglycerin	168	UG_KG	U			8200	620						84	400	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Perchlorate	1.05	UG_KG	U			82000	5500						0.526	2.1	11/15/2013 12:00	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	PETN	128	UG_KG	U			160000	12000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Potassium	45.9	MG_KG	J	359				Y					7.03	71.8	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Selenium	1.44	MG_KG	U	1.59	1.5	580	39						0.459	2.87	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Silver	0.359	MG_KG	U	0.354	3.4	580	39						0.132	0.718	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Sodium	17.9	MG_KG	U	250									4.31	35.9	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/15/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Thallium	1.44	MG_KG	U		0.28	1.2	0.078						0.33	2.87	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Vanadium	2.33	MG_KG		17.6	6	580	39	Y					0.056	1.44	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS02-OC-13D	N	Zinc	0.787	MG_KG	J	28.6	1200	35000	2300	Y					0.301	1.44	11/15/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	1,3,5-Trinitrobenzene	127	UG_KG	U			3200000	220000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	1,3-Dinitrobenzene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	2,4,6-Trinitrotoluene	127	UG_KG	U			52000	3600						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	2,4-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	2,6-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	2-Amino-4,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	2-Nitrotoluene	127	UG_KG	UJ			15000	3200						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	3-Nitrotoluene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	4-Amino-2,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	4-Nitrotoluene	127	UG_KG	UJ			140000	25000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Aluminum	2320	MG_KG		12800		100000	7700	Y					3.5	29.2	11/26/2013 10:30	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Antimony	2.92	MG_KG	UJ	1.87	0.9	47	3.1						0.714	5.83	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Arsenic	1.46	MG_KG	U	1.17	5.8	3	0.67						0.408	2.92	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Barium	2.64	MG_KG		36.7	580	22000	1500	Y					0.0321	0.729	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Beryllium	0.0199	MG_KG	J	0.195	63	230	16	Y					0.00889	0.0729	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Cadmium	0.146	MG_KG	U	0.2	3	98	7						0.0262	0.292	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Calcium	231	MG_KG		8470				Y					1.9	36.5	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Chromium	1.96	MG_KG		17.4	3.8	6.3	0.3	Y					0.0525	0.729	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Chromium (hexavalent)	0.23	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/26/2013 10:30	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Cobalt	0.127	MG_KG	J	0.414	0.9	35	2.3	Y					0.051	0.729	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Copper	0.52	MG_KG	J	17.1	700	4700	310	Y					0.115	0.729	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	HMX	127	UG_KG	U			5700000	380000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Iron	817	MG_KG		7210	150	82000	5500	Y					2.48	7.29	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Lead	2.39	MG_KG	J	27.5	270	800	400	Y					0.16	2.92	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Magnesium	44.3	MG_KG		904				Y					1.25	36.5	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Manganese	2.32	MG_KG		37	65	2600	180	Y					0.016	1.46	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Mercury	0.00414	MG_KG	J	0.161	1	35	2.3	Y					0.00409	0.022	11/26/2013 10:30	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Nickel	0.619	MG_KG	J	3.11	130	2200	150	Y					0.0496	0.729	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Nitrobenzene	127	UG_KG	UJ			22000	5100						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Nitroglycerin	167	UG_KG	UJ			8200	620						83.7	398	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Perchlorate	1.02	UG_KG	U			82000	5500						0.51	2.04	11/26/2013 10:30	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	PETN	127	UG_KG	UJ			160000	12000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Potassium	48.7	MG_KG	J	359				Y					7.14	72.9	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	RDX	127	UG_KG	U			28000	6000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Selenium	1.46	MG_KG	U	1.59	1.5	580	39						0.467	2.92	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Silver	0.365	MG_KG	U	0.354	3.4	580	39						0.134	0.729	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Sodium	5.43	MG_KG	J	250				Y					4.37	36.5	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Tetryl	127	UG_KG	U			160000	12000						63.7	199	11/26/2013 10:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Thallium	1.46	MG_KG	U		0.28	1.2	0.078						0.335	2.92	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Vanadium	2.48	MG_KG		17.6	6	580	39	Y					0.0569	1.46	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS03-IC-13D	N	Zinc	1.02	MG_KG	J	28.6	1200	35000	2300	Y					0.306	1.46	11/26/2013 10:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Aluminum	2570	MG_KG		12800		100000	7700	Y					2.96	24.7	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Antimony	2.47	MG_KG	UJ	1.87	0.9	47	3.1						0.605	4.94	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Arsenic	0.359	MG_KG	J	1.17	5.8	3	0.67	Y					0.346	2.47	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Barium	2.86	MG_KG		36.7	580	22000	1500	Y					0.0272	0.617	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Beryllium	0.0217	MG_KG	J	0.195	63	230	16	Y					0.00753	0.0617	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Cadmium	0.123	MG_KG	U	0.2	3	98	7						0.0222	0.247	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Calcium	132	MG_KG		8470				Y					1.61	30.9	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Chromium	2.22	MG_KG		17.4	3.8	6.3	0.3	Y					0.0445	0.617	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Chromium (hexavalent)	0.25	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.07	0.42	11/26/2013 10:45	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Cobalt	0.134	MG_KG	J	0.414	0.9	35	2.3	Y					0.0432	0.617	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Copper	0.564	MG_KG	J	17.1	700	4700	310	Y					0.0976	0.617	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Iron	804	MG_KG		7210	150	82000	5500	Y					2.1	6.17	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Lead	2.67	MG_KG		27.5	270	800	400	Y					0.136	2.47	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Magnesium	51.4	MG_KG		904				Y					1.06	30.9	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Manganese	2.34	MG_KG		37	65	2600	180	Y					0.0136	1.23	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Mercury	0.00387	MG_KG	J	0.161	1	35	2.3	Y					0.00361	0.0195	11/26/2013 10:45	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Nickel	0.653	MG_KG		3.11	130	2200	150	Y					0.042	0.617	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						83.8	399	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Perchlorate	1.04	UG_KG	U			82000	5500						0.522	2.09	11/26/2013 10:45	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	PETN	128	UG_KG	UJ			160000	12000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Potassium	53.3	MG_KG	J	359				Y					6.05	61.7	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	RDX	128	UG_KG	U			28000	6000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Selenium	1.23	MG_KG	U	1.59	1.5	580	39						0.395	2.47	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Silver	0.309	MG_KG	U	0.354	3.4	580	39						0.114	0.617	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Sodium	6.49	MG_KG	J	250				Y					3.7	30.9	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						63.9	200	11/26/2013 10:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Thallium	1.23	MG_KG	U		0.28	1.2	0.078						0.284	2.47	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Vanadium	2.59	MG_KG		17.6	6	580	39	Y					0.0482	1.23	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS03-OC-13D	N	Zinc	1.09	MG_KG	J	28.6	1200	35000	2300	Y					0.259	1.23	11/26/2013 10:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	1,3,5-Trinitrobenzene	127	UG_KG	U			3200000	220000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	1,3-Dinitrobenzene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	2,4,6-Trinitrotoluene	127	UG_KG	U			52000	3600						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	2,4-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	2,6-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	2-Amino-4,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	2-Nitrotoluene	127	UG_KG	UJ			15000	3200						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	3-Nitrotoluene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	4-Amino-2,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	4-Nitrotoluene	127	UG_KG	UJ			140000	25000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Aluminum	2620	MG_KG	J	12800		100000	7700	Y					3.07	25.6	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Antimony	2.56	MG_KG	UJ	1.87	0.9	47	3.1						0.628	5.12	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Arsenic	1.28	MG_KG	U	1.17	5.8	3	0.67						0.359	2.56	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Barium	2.89	MG_KG	J	36.7	580	22000	1500	Y					0.0282	0.64	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Beryllium	0.0207	MG_KG	J	0.195	63	230	16	Y					0.00781	0.064	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Cadmium	0.128	MG_KG	U	0.2	3	98	7						0.0231	0.256	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Calcium	96.5	MG_KG		8470				Y					1.66	32	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Chromium	2.27	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.0461	0.64	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Chromium (hexavalent)	0.19	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.42	11/26/2013 11:05	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Cobalt	0.156	MG_KG	J	0.414	0.9	35	2.3	Y					0.0448	0.64	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Copper	0.56	MG_KG	J	17.1	700	4700	310	Y					0.101	0.64	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	HMX	127	UG_KG	U			5700000	380000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Iron	841	MG_KG		7210	150	82000	5500	Y					2.18	6.4	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Lead	2.57	MG_KG		27.5	270	800	400	Y					0.141	2.56	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Magnesium	58.7	MG_KG	J	904				Y					1.09	32	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Manganese	1.93	MG_KG		37	65	2600	180	Y					0.0141	1.28	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Mercury	0.0112	MG_KG	U	0.161	1	35	2.3						0.00372	0.02	11/26/2013 11:05	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Nickel	0.707	MG_KG	J	3.11	130	2200	150	Y					0.0435	0.64	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Nitrobenzene	127	UG_KG	UJ			22000	5100						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Nitroglycerin	167	UG_KG	UJ			8200	620						83.7	398	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Perchlorate	1.12	UG_KG	U			82000	5500						0.562	2.25	11/26/2013 11:05	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	PETN	127	UG_KG	UJ			160000	12000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Potassium	57.1	MG_KG	J	359				Y					6.28	64	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	RDX	127	UG_KG	U			28000	6000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Selenium	1.28	MG_KG	U	1.59	1.5	580	39						0.41	2.56	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Silver	0.32	MG_KG	U	0.354	3.4	580	39						0.118	0.64	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Sodium	3.84	MG_KG	J	250				Y					3.84	32	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Tetryl	127	UG_KG	U			160000	12000						63.7	199	11/26/2013 11:05	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Thallium	1.28	MG_KG	U		0.28	1.2	0.078						0.295	2.56	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Vanadium	2.82	MG_KG		17.6	6	580	39	Y					0.0499	1.28	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04D-IC-13D	FD	Zinc	0.986	MG_KG	J	28.6	1200	35000	2300	Y					0.269	1.28	11/26/2013 11:05	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Aluminum	4100	MG_KG	J	12800		100000	7700	Y					3.21	26.8	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Antimony	2.68	MG_KG	UJ	1.87	0.9	47	3.1						0.656	5.36	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Arsenic	1.34	MG_KG	U	1.17	5.8	3	0.67						0.375	2.68	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Barium	5.79	MG_KG	J	36.7	580	22000	1500	Y					0.0295	0.669	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Beryllium	0.0274	MG_KG	J	0.195	63	230	16	Y					0.00817	0.0669	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Cadmium	0.134	MG_KG	U	0.2	3	98	7						0.0241	0.268	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Calcium	92.3	MG_KG		8470				Y					1.74	33.5	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Chromium	3.63	MG_KG	J	17.4	3.8	6.3	0.3	Y					0.0482	0.669	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Chromium (hexavalent)	0.17	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.42	11/26/2013 11:00	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Cobalt	0.239	MG_KG	J	0.414	0.9	35	2.3	Y					0.0469	0.669	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Copper	0.99	MG_KG		17.1	700	4700	310	Y					0.106	0.669	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	HMX	128	UG_KG	U			5700000	380000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Iron	948	MG_KG		7210	150	82000	5500	Y					2.28	6.69	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Lead	3.3	MG_KG		27.5	270	800	400	Y					0.147	2.68	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Magnesium	114	MG_KG	J	904				Y					1.14	33.5	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Manganese	2.67	MG_KG		37	65	2600	180	Y					0.0147	1.34	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Mercury	0.0125	MG_KG	U	0.161	1	35	2.3						0.00418	0.0225	11/26/2013 11:00	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Nickel	1.03	MG_KG	J	3.11	130	2200	150	Y					0.0455	0.669	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						83.9	400	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Perchlorate	1.03	UG_KG	U			82000	5500						0.517	2.07	11/26/2013 11:00	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	PETN	128	UG_KG	UJ			160000	12000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Potassium	96	MG_KG		359				Y					6.56	66.9	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	RDX	128	UG_KG	U			28000	6000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Selenium	1.34	MG_KG	U	1.59	1.5	580	39						0.428	2.68	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Silver	0.335	MG_KG	U	0.354	3.4	580	39						0.123	0.669	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Sodium	7.54	MG_KG	J	250				Y					4.02	33.5	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Tetryl	128	UG_KG	U			160000	12000						63.9	200	11/26/2013 11:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Thallium	1.34	MG_KG	U		0.28	1.2	0.078						0.308	2.68	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Vanadium	3.85	MG_KG		17.6	6	580	39	Y					0.0522	1.34	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS04-IC-13D	N	Zinc	1.53	MG_KG		28.6	1200	35000	2300	Y					0.281	1.34	11/26/2013 11:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	1,3,5-Trinitrobenzene	127	UG_KG	U			3200000	220000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	1,3-Dinitrobenzene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	2,4,6-Trinitrotoluene	127	UG_KG	U			52000	3600						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	2,4-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	2,6-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	2-Amino-4,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	2-Nitrotoluene	127	UG_KG	UJ			15000	3200						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	3-Nitrotoluene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	4-Amino-2,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	4-Nitrotoluene	127	UG_KG	UJ			140000	25000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Aluminum	2770	MG_KG		12800		100000	7700	Y					3.33	27.7	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Antimony	2.77	MG_KG	UJ	1.87	0.9	47	3.1						0.679	5.54	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Arsenic	1.39	MG_KG	U	1.17	5.8	3	0.67						0.388	2.77	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Barium	2.85	MG_KG		36.7	580	22000	1500	Y					0.0305	0.693	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Beryllium	0.0191	MG_KG	J	0.195	63	230	16	Y					0.00845	0.0693	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Cadmium	0.139	MG_KG	U	0.2	3	98	7						0.0249	0.277	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Calcium	81.9	MG_KG		8470				Y					1.8	34.6	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Chromium	2.38	MG_KG		17.4	3.8	6.3	0.3	Y					0.0499	0.693	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Chromium (hexavalent)	0.87	MG_KG		2.73	3.8	6.3	0.3	Y					0.06	0.41	11/26/2013 11:15	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Cobalt	0.17	MG_KG	J	0.414	0.9	35	2.3	Y					0.0485	0.693	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Copper	0.565	MG_KG	J	17.1	700	4700	310	Y					0.109	0.693	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	HMX	127	UG_KG	U			5700000	380000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Iron	881	MG_KG		7210	150	82000	5500	Y					2.36	6.93	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Lead	2.53	MG_KG	J	27.5	270	800	400	Y					0.152	2.77	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Magnesium	58.6	MG_KG		904				Y					1.18	34.6	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Manganese	1.87	MG_KG		37	65	2600	180	Y					0.0152	1.39	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Mercury	0.00407	MG_KG	J	0.161	1	35	2.3	Y					0.00405	0.0218	11/26/2013 11:15	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Nickel	0.745	MG_KG		3.11	130	2200	150	Y					0.0471	0.693	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Nitrobenzene	127	UG_KG	UJ			22000	5100						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Nitroglycerin	167	UG_KG	UJ			8200	620						83.7	398	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Perchlorate	1.04	UG_KG	U			82000	5500						0.521	2.09	11/26/2013 11:15	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	PETN	127	UG_KG	UJ			160000	12000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Potassium	58.6	MG_KG	J	359				Y					6.79	69.3	11/26/2013 11:15	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	RDX	127	UG_KG	U			28000	6000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Selenium	1.39	MG_KG	U	1.59	1.5	580	39						0.443	2.77	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Silver	0.346	MG_KG	U	0.354	3.4	580	39						0.127	0.693	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Sodium	6.8	MG_KG	J	250				Y					4.16	34.6	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Tetryl	127	UG_KG	U			160000	12000						63.7	199	11/26/2013 11:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Thallium	1.39	MG_KG	U		0.28	1.2	0.078						0.319	2.77	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Vanadium	2.99	MG_KG		17.6	6	580	39	Y					0.054	1.39	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS04-OC-13D	N	Zinc	1.17	MG_KG	J	28.6	1200	35000	2300	Y					0.291	1.39	11/26/2013 11:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Aluminum	2500	MG_KG		12800		100000	7700	Y					3.49	29.1	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Antimony	2.91	MG_KG	UJ	1.87	0.9	47	3.1						0.712	5.82	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Arsenic	1.45	MG_KG	U	1.17	5.8	3	0.67						0.407	2.91	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Barium	2.61	MG_KG		36.7	580	22000	1500	Y					0.032	0.727	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Beryllium	0.0179	MG_KG	J	0.195	63	230	16	Y					0.00887	0.0727	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Cadmium	0.145	MG_KG	U	0.2	3	98	7						0.0262	0.291	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Calcium	106	MG_KG		8470				Y					1.89	36.3	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Chromium	2.09	MG_KG		17.4	3.8	6.3	0.3	Y					0.0523	0.727	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Chromium (hexavalent)	0.37	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.08	0.5	11/26/2013 11:30	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Cobalt	0.146	MG_KG	J	0.414	0.9	35	2.3	Y					0.0509	0.727	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Copper	0.573	MG_KG	J	17.1	700	4700	310	Y					0.115	0.727	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Iron	777	MG_KG		7210	150	82000	5500	Y					2.47	7.27	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Lead	2.41	MG_KG	J	27.5	270	800	400	Y					0.16	2.91	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Magnesium	51.8	MG_KG		904				Y					1.24	36.3	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Manganese	1.84	MG_KG		37	65	2600	180	Y					0.016	1.45	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Mercury	0.0131	MG_KG	U	0.161	1	35	2.3						0.00437	0.0236	11/26/2013 11:30	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Nickel	0.732	MG_KG		3.11	130	2200	150	Y					0.0494	0.727	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						84	400	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Perchlorate	1.05	UG_KG	U			82000	5500						0.524	2.1	11/26/2013 11:30	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	PETN	128	UG_KG	UJ			160000	12000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Potassium	55.1	MG_KG	J	359				Y					7.12	72.7	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Selenium	1.45	MG_KG	U	1.59	1.5	580	39						0.465	2.91	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Silver	0.363	MG_KG	U	0.354	3.4	580	39						0.134	0.727	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Sodium	8.22	MG_KG	J	250				Y					4.36	36.3	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/26/2013 11:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Thallium	1.45	MG_KG	U		0.28	1.2	0.078						0.334	2.91	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Vanadium	2.57	MG_KG		17.6	6	580	39	Y					0.0567	1.45	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS05-IC-13D	N	Zinc	1.16	MG_KG	J	28.6	1200	35000	2300	Y					0.305	1.45	11/26/2013 11:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Aluminum	2840	MG_KG		12800		100000	7700	Y					2.52	21	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Antimony	2.1	MG_KG	UJ	1.87	0.9	47	3.1						0.514	4.2	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Arsenic	1.05	MG_KG	U	1.17	5.8	3	0.67						0.294	2.1	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Barium	3.6	MG_KG		36.7	580	22000	1500	Y					0.0231	0.525	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Beryllium	0.0214	MG_KG	J	0.195	63	230	16	Y					0.0064	0.0525	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Cadmium	0.105	MG_KG	U	0.2	3	98	7						0.0189	0.21	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Calcium	90.1	MG_KG		8470				Y					1.36	26.2	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Chromium	2.52	MG_KG		17.4	3.8	6.3	0.3	Y					0.0378	0.525	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Chromium (hexavalent)	0.19	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/26/2013 11:45	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Cobalt	0.192	MG_KG	J	0.414	0.9	35	2.3	Y					0.0367	0.525	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Copper	0.608	MG_KG		17.1	700	4700	310	Y					0.0829	0.525	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Iron	834	MG_KG		7210	150	82000	5500	Y					1.78	5.25	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Lead	2.43	MG_KG		27.5	270	800	400	Y					0.115	2.1	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Magnesium	71.4	MG_KG		904				Y					0.897	26.2	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Manganese	2.45	MG_KG		37	65	2600	180	Y					0.0115	1.05	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Mercury	0.0123	MG_KG	U	0.161	1	35	2.3						0.00409	0.022	11/26/2013 11:45	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Nickel	0.823	MG_KG		3.11	130	2200	150	Y					0.0357	0.525	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						83.8	399	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Perchlorate	1.05	UG_KG	U			82000	5500						0.527	2.11	11/26/2013 11:45	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	PETN	128	UG_KG	UJ			160000	12000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Potassium	60.3	MG_KG		359				Y					5.14	52.5	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	RDX	128	UG_KG	U			28000	6000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Selenium	1.05	MG_KG	U	1.59	1.5	580	39						0.336	2.1	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Silver	0.262	MG_KG	U	0.354	3.4	580	39						0.0965	0.525	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Sodium	7.78	MG_KG	J	250				Y					3.15	26.2	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						63.9	200	11/26/2013 11:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Thallium	1.05	MG_KG	U		0.28	1.2	0.078						0.241	2.1	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Vanadium	3.06	MG_KG		17.6	6	580	39	Y					0.0409	1.05	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS05-OC-13D	N	Zinc	1.19	MG_KG		28.6	1200	35000	2300	Y					0.22	1.05	11/26/2013 11:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	1,3,5-Trinitrobenzene	127	UG_KG	U			3200000	220000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	1,3-Dinitrobenzene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	2,4,6-Trinitrotoluene	127	UG_KG	U			52000	3600						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	2,4-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	2,6-Dinitrotoluene	127	UG_KG	UJ			3400	780						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	2-Amino-4,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	2-Nitrotoluene	127	UG_KG	UJ			15000	3200						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	3-Nitrotoluene	127	UG_KG	UJ			8200	620						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	4-Amino-2,6-dinitrotoluene	127	UG_KG	U			230000	15000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	4-Nitrotoluene	127	UG_KG	UJ			140000	25000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Aluminum	3940	MG_KG		12800		100000	7700	Y					3.12	26	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Antimony	2.6	MG_KG	UJ	1.87	0.9	47	3.1						0.638	5.21	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Arsenic	0.397	MG_KG	J	1.17	5.8	3	0.67	Y					0.365	2.6	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Barium	5.95	MG_KG		36.7	580	22000	1500	Y					0.0286	0.651	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Beryllium	0.0254	MG_KG	J	0.195	63	230	16	Y					0.00794	0.0651	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Cadmium	0.13	MG_KG	U	0.2	3	98	7						0.0234	0.26	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Calcium	167	MG_KG		8470				Y					1.69	32.5	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Chromium	3.46	MG_KG		17.4	3.8	6.3	0.3	Y					0.0469	0.651	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Chromium (hexavalent)	0.17	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.4	11/26/2013 12:00	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Cobalt	0.245	MG_KG	J	0.414	0.9	35	2.3	Y					0.0456	0.651	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Copper	0.995	MG_KG		17.1	700	4700	310	Y					0.103	0.651	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	HMX	127	UG_KG	U			5700000	380000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Iron	1020	MG_KG		7210	150	82000	5500	Y					2.21	6.51	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Lead	3.5	MG_KG		27.5	270	800	400	Y					0.143	2.6	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Magnesium	113	MG_KG		904				Y					1.11	32.5	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Manganese	2.46	MG_KG		37	65	2600	180	Y					0.0143	1.3	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Mercury	0.0122	MG_KG	U	0.161	1	35	2.3						0.00406	0.0219	11/26/2013 12:00	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Nickel	0.999	MG_KG		3.11	130	2200	150	Y					0.0443	0.651	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Nitrobenzene	127	UG_KG	UJ			22000	5100						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Nitroglycerin	167	UG_KG	UJ			8200	620						83.7	398	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Perchlorate	1.04	UG_KG	U			82000	5500						0.518	2.07	11/26/2013 12:00	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	PETN	127	UG_KG	UJ			160000	12000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Potassium	94.3	MG_KG		359				Y					6.38	65.1	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	RDX	127	UG_KG	U			28000	6000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Selenium	1.3	MG_KG	U	1.59	1.5	580	39						0.417	2.6	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Silver	0.325	MG_KG	U	0.354	3.4	580	39						0.12	0.651	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Sodium	6.46	MG_KG	J	250				Y					3.91	32.5	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Tetryl	127	UG_KG	U			160000	12000						63.7	199	11/26/2013 12:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Thallium	1.3	MG_KG	U		0.28	1.2	0.078						0.299	2.6	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Vanadium	3.85	MG_KG		17.6	6	580	39	Y					0.0508	1.3	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS06-IC-13D	N	Zinc	1.45	MG_KG		28.6	1200	35000	2300	Y					0.273	1.3	11/26/2013 12:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Aluminum	2600	MG_KG		12800		100000	7700	Y					3.65	30.4	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Antimony	3.04	MG_KG	UJ	1.87	0.9	47	3.1						0.746	6.09	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Arsenic	1.52	MG_KG	U	1.17	5.8	3	0.67						0.426	3.04	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Barium	3.12	MG_KG		36.7	580	22000	1500	Y					0.0335	0.761	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Beryllium	0.0203	MG_KG	J	0.195	63	230	16	Y					0.00928	0.0761	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Cadmium	0.152	MG_KG	U	0.2	3	98	7						0.0274	0.304	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Calcium	78.8	MG_KG		8470				Y					1.98	38	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Chromium	2.26	MG_KG		17.4	3.8	6.3	0.3	Y					0.0548	0.761	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Chromium (hexavalent)	0.18	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/26/2013 12:15	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Cobalt	0.157	MG_KG	J	0.414	0.9	35	2.3	Y					0.0533	0.761	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Copper	0.545	MG_KG	J	17.1	700	4700	310	Y					0.12	0.761	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Iron	823	MG_KG		7210	150	82000	5500	Y					2.59	7.61	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Lead	3.4	MG_KG		27.5	270	800	400	Y					0.167	3.04	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Magnesium	54	MG_KG		904				Y					1.3	38	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Manganese	1.88	MG_KG		37	65	2600	180	Y					0.0167	1.52	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Mercury	0.00412	MG_KG	J	0.161	1	35	2.3	Y					0.0041	0.0221	11/26/2013 12:15	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Nickel	0.712	MG_KG	J	3.11	130	2200	150	Y					0.0517	0.761	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						84	400	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Perchlorate	1.03	UG_KG	U			82000	5500						0.516	2.06	11/26/2013 12:15	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	PETN	128	UG_KG	UJ			160000	12000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Potassium	52.9	MG_KG	J	359				Y					7.46	76.1	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Selenium	1.52	MG_KG	U	1.59	1.5	580	39						0.487	3.04	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Silver	0.38	MG_KG	U	0.354	3.4	580	39						0.14	0.761	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Sodium	19	MG_KG	U	250									4.57	38	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/26/2013 12:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Thallium	1.52	MG_KG	U		0.28	1.2	0.078						0.35	3.04	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Vanadium	2.73	MG_KG		17.6	6	580	39	Y					0.0594	1.52	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS06-OC-13D	N	Zinc	0.827	MG_KG	J	28.6	1200	35000	2300	Y					0.32	1.52	11/26/2013 12:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Aluminum	2830	MG_KG		12800		100000	7700	Y					3.08	25.7	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Antimony	2.57	MG_KG	UJ	1.87	0.9	47	3.1						0.629	5.13	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Arsenic	0.382	MG_KG	J	1.17	5.8	3	0.67	Y					0.359	2.57	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Barium	3.24	MG_KG		36.7	580	22000	1500	Y					0.0282	0.642	11/26/2013 12:30	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Beryllium	0.0222	MG_KG	J	0.195	63	230	16	Y					0.00783	0.0642	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Cadmium	0.128	MG_KG	U	0.2	3	98	7						0.0231	0.257	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Calcium	114	MG_KG		8470				Y					1.67	32.1	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Chromium	2.48	MG_KG		17.4	3.8	6.3	0.3	Y					0.0462	0.642	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Chromium (hexavalent)	0.21	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/26/2013 12:30	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Cobalt	0.165	MG_KG	J	0.414	0.9	35	2.3	Y					0.0449	0.642	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Copper	0.643	MG_KG		17.1	700	4700	310	Y					0.101	0.642	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Iron	857	MG_KG		7210	150	82000	5500	Y					2.18	6.42	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Lead	2.67	MG_KG		27.5	270	800	400	Y					0.141	2.57	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Magnesium	64	MG_KG		904				Y					1.1	32.1	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Manganese	1.96	MG_KG		37	65	2600	180	Y					0.0141	1.28	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Mercury	0.00491	MG_KG	J	0.161	1	35	2.3	Y					0.00405	0.0218	11/26/2013 12:30	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Nickel	0.777	MG_KG		3.11	130	2200	150	Y					0.0436	0.642	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						84	400	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Perchlorate	1.04	UG_KG	U			82000	5500						0.519	2.08	11/26/2013 12:30	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	PETN	128	UG_KG	UJ			160000	12000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Potassium	60.9	MG_KG	J	359				Y					6.29	64.2	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Selenium	1.28	MG_KG	U	1.59	1.5	580	39						0.411	2.57	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Silver	0.321	MG_KG	U	0.354	3.4	580	39						0.118	0.642	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Sodium	4.5	MG_KG	J	250				Y					3.85	32.1	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/26/2013 12:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Thallium	1.28	MG_KG	U		0.28	1.2	0.078						0.295	2.57	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Vanadium	2.94	MG_KG		17.6	6	580	39	Y					0.05	1.28	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS07-IC-13D	N	Zinc	0.986	MG_KG	J	28.6	1200	35000	2300	Y					0.269	1.28	11/26/2013 12:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	UJ			230000	15000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Aluminum	3830	MG_KG		12800		100000	7700	Y					2.51	20.9	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Antimony	2.09	MG_KG	UJ	1.87	0.9	47	3.1						0.512	4.18	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Arsenic	1.04	MG_KG	U	1.17	5.8	3	0.67						0.293	2.09	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Barium	5.6	MG_KG		36.7	580	22000	1500	Y					0.023	0.522	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Beryllium	0.0257	MG_KG	J	0.195	63	230	16	Y					0.00637	0.0522	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Cadmium	0.104	MG_KG	U	0.2	3	98	7						0.0188	0.209	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Calcium	69.3	MG_KG		8470				Y					1.36	26.1	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Chromium	3.48	MG_KG		17.4	3.8	6.3	0.3	Y					0.0376	0.522	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Chromium (hexavalent)	0.18	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/26/2013 12:45	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Cobalt	0.242	MG_KG	J	0.414	0.9	35	2.3	Y					0.0366	0.522	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Copper	1.12	MG_KG		17.1	700	4700	310	Y					0.0825	0.522	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Iron	853	MG_KG		7210	150	82000	5500	Y					1.78	5.22	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Lead	2.89	MG_KG		27.5	270	800	400	Y					0.115	2.09	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Magnesium	121	MG_KG		904				Y					0.893	26.1	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Manganese	2.52	MG_KG		37	65	2600	180	Y					0.0115	1.04	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Mercury	0.00506	MG_KG	J	0.161	1	35	2.3	Y					0.00407	0.0219	11/26/2013 12:45	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Nickel	1.06	MG_KG		3.11	130	2200	150	Y					0.0355	0.522	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						84	400	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Perchlorate	1.05	UG_KG	U			82000	5500						0.523	2.09	11/26/2013 12:45	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	PETN	128	UG_KG	UJ			160000	12000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Potassium	85.4	MG_KG		359				Y					5.12	52.2	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Selenium	1.04	MG_KG	U	1.59	1.5	580	39						0.334	2.09	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Silver	0.261	MG_KG	U	0.354	3.4	580	39						0.0961	0.522	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Sodium	5.69	MG_KG	J	250				Y					3.13	26.1	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/26/2013 12:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Thallium	1.04	MG_KG	U		0.28	1.2	0.078						0.24	2.09	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Vanadium	3.81	MG_KG		17.6	6	580	39	Y					0.0407	1.04	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS07-OC-13D	N	Zinc	1.45	MG_KG		28.6	1200	35000	2300	Y					0.219	1.04	11/26/2013 12:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Aluminum	2330	MG_KG		12800		100000	7700	Y					3.52	29.4	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Antimony	2.94	MG_KG	UJ	1.87	0.9	47	3.1						0.719	5.87	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Arsenic	1.47	MG_KG	U	1.17	5.8	3	0.67						0.411	2.94	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Barium	2.45	MG_KG		36.7	580	22000	1500	Y					0.0323	0.734	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Beryllium	0.0179	MG_KG	J	0.195	63	230	16	Y					0.00895	0.0734	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Cadmium	0.147	MG_KG	U	0.2	3	98	7						0.0264	0.294	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Calcium	70.1	MG_KG		8470				Y					1.91	36.7	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Chromium	1.97	MG_KG		17.4	3.8	6.3	0.3	Y					0.0528	0.734	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Chromium (hexavalent)	0.19	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.41	11/26/2013 13:20	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Cobalt	0.13	MG_KG	J	0.414	0.9	35	2.3	Y					0.0514	0.734	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Copper	0.51	MG_KG	J	17.1	700	4700	310	Y					0.116	0.734	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	HMX	128	UG_KG	U			5700000	380000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Iron	782	MG_KG		7210	150	82000	5500	Y					2.5	7.34	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Lead	2.49	MG_KG	J	27.5	270	800	400	Y					0.161	2.94	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Magnesium	43.2	MG_KG		904				Y					1.25	36.7	11/26/2013 13:20	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Manganese	1.63	MG_KG		37	65	2600	180	Y					0.0161	1.47	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Mercury	0.0043	MG_KG	J	0.161	1	35	2.3	Y					0.00406	0.0219	11/26/2013 13:20	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Nickel	0.649	MG_KG	J	3.11	130	2200	150	Y					0.0499	0.734	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Nitroglycerin	168	UG_KG	UJ			8200	620						83.9	400	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Perchlorate	1.05	UG_KG	U			82000	5500						0.525	2.1	11/26/2013 13:20	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	PETN	128	UG_KG	UJ			160000	12000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Potassium	43.9	MG_KG	J	359				Y					7.19	73.4	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	RDX	128	UG_KG	U			28000	6000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Selenium	1.47	MG_KG	U	1.59	1.5	580	39						0.47	2.94	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Silver	0.367	MG_KG	U	0.354	3.4	580	39						0.135	0.734	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Sodium	5.56	MG_KG	J	250				Y					4.4	36.7	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Tetryl	128	UG_KG	U			160000	12000						63.9	200	11/26/2013 13:20	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Thallium	1.47	MG_KG	U		0.28	1.2	0.078						0.338	2.94	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Vanadium	2.52	MG_KG		17.6	6	580	39	Y					0.0572	1.47	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08D-OC-13D	FD	Zinc	1.47	MG_KG		28.6	1200	35000	2300	Y					0.308	1.47	11/26/2013 13:20	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Aluminum	2500	MG_KG		12800		100000	7700	Y					2.51	20.9	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Antimony	2.09	MG_KG	UJ	1.87	0.9	47	3.1						0.513	4.18	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Arsenic	1.05	MG_KG	U	1.17	5.8	3	0.67						0.293	2.09	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Barium	2.66	MG_KG		36.7	580	22000	1500	Y					0.023	0.523	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Beryllium	0.0179	MG_KG	J	0.195	63	230	16	Y					0.00638	0.0523	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Cadmium	0.105	MG_KG	U	0.2	3	98	7						0.0188	0.209	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Calcium	71	MG_KG		8470				Y					1.36	26.2	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Chromium	2.12	MG_KG		17.4	3.8	6.3	0.3	Y					0.0377	0.523	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Chromium (hexavalent)	0.17	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.06	0.4	11/26/2013 13:00	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Cobalt	0.146	MG_KG	J	0.414	0.9	35	2.3	Y					0.0366	0.523	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Copper	0.532	MG_KG		17.1	700	4700	310	Y					0.0826	0.523	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	HMX	128	UG_KG	U			5700000	380000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Iron	781	MG_KG		7210	150	82000	5500	Y					1.78	5.23	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Lead	2.18	MG_KG		27.5	270	800	400	Y					0.115	2.09	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Magnesium	51.8	MG_KG		904				Y					0.894	26.2	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Manganese	1.61	MG_KG		37	65	2600	180	Y					0.0115	1.05	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Mercury	0.0046	MG_KG	J	0.161	1	35	2.3	Y					0.00408	0.022	11/26/2013 13:00	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Nickel	0.687	MG_KG		3.11	130	2200	150	Y					0.0356	0.523	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Nitroglycerin	167	UG_KG	UJ			8200	620						83.7	399	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Perchlorate	1.04	UG_KG	U			82000	5500						0.52	2.08	11/26/2013 13:00	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	PETN	128	UG_KG	UJ			160000	12000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Potassium	48.8	MG_KG	J	359				Y					5.13	52.3	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	RDX	128	UG_KG	U			28000	6000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Selenium	1.05	MG_KG	U	1.59	1.5	580	39						0.335	2.09	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Silver	0.262	MG_KG	U	0.354	3.4	580	39						0.0962	0.523	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Sodium	13.1	MG_KG	U	250									3.14	26.2	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Tetryl	128	UG_KG	U			160000	12000						63.8	199	11/26/2013 13:00	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Thallium	1.05	MG_KG	U		0.28	1.2	0.078						0.241	2.09	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Vanadium	2.6	MG_KG		17.6	6	580	39	Y					0.0408	1.05	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Inside of Crater	MR29-SS08-IC-13D	N	Zinc	0.795	MG_KG	J	28.6	1200	35000	2300	Y					0.22	1.05	11/26/2013 13:00	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Aluminum	2450	MG_KG		12800		100000	7700	Y					2.99	24.9	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Antimony	2.49	MG_KG	UJ	1.87	0.9	47	3.1						0.611	4.99	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Arsenic	1.25	MG_KG	U	1.17	5.8	3	0.67						0.349	2.49	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Barium	2.24	MG_KG		36.7	580	22000	1500	Y					0.0274	0.623	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Beryllium	0.0181	MG_KG	J	0.195	63	230	16	Y					0.0076	0.0623	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Cadmium	0.125	MG_KG	U	0.2	3	98	7						0.0224	0.249	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Calcium	62.1	MG_KG		8470				Y					1.62	31.2	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Chromium	2.13	MG_KG		17.4	3.8	6.3	0.3	Y					0.0449	0.623	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Chromium (hexavalent)	0.26	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.08	0.5	11/26/2013 13:15	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Cobalt	0.125	MG_KG	J	0.414	0.9	35	2.3	Y					0.0436	0.623	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Copper	0.577	MG_KG	J	17.1	700	4700	310	Y					0.0985	0.623	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Iron	835	MG_KG		7210	150	82000	5500	Y					2.12	6.23	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Lead	2.46	MG_KG	J	27.5	270	800	400	Y					0.137	2.49	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Magnesium	43.8	MG_KG		904				Y					1.07	31.2	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Manganese	1.59	MG_KG		37	65	2600	180	Y					0.0137	1.25	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Mercury	0.0105	MG_KG	U	0.161	1	35	2.3						0.0035	0.0188	11/26/2013 13:15	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Nickel	0.724	MG_KG		3.11	130	2200	150	Y					0.0424	0.623	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						84	400	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Perchlorate	1.04	UG_KG	U			82000	5500						0.522	2.09	11/26/2013 13:15	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	PETN	128	UG_KG	UJ			160000	12000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Potassium	43.5	MG_KG	J	359				Y					6.11	62.3	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Selenium	1.25	MG_KG	U	1.59	1.5	580	39						0.399	2.49	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Silver	0.312	MG_KG	U	0.354	3.4	580	39						0.115	0.623	11/26/2013 13:15	METAL	6010C	SS

ATTACHMENT 1

Post-Detonation Sampling Data

September 2014

Marine Corps Installations East-Marine Corps Base Camp Lejeune

Munitions Response Site	PROJECT	Detonation Location	POSITION	SampleID	Sample Type	AnalyteName	Result Value	Result Units	Result Flag	BTV	NCSSL	RSL_Ind	RSL_Res	Detected	Exceeded BTV	Exceeded NCCSSL	Exceeded_ RSL_Ind	Exceeded_ RSL_Res	Method DetLimit	Reporting Limit	Sample Date	Analytical Group	Analytical Method	Matrix
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Sodium	15.6	MG_KG	U	250									3.74	31.2	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/26/2013 13:15	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Thallium	1.25	MG_KG	U		0.28	1.2	0.078						0.287	2.49	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Vanadium	2.65	MG_KG		17.6	6	580	39	Y					0.0486	1.25	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Single Item/Single Detonation	Outside of Crater	MR29-SS08-OC-13D	N	Zinc	0.766	MG_KG	J	28.6	1200	35000	2300	Y					0.262	1.25	11/26/2013 13:15	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Aluminum	2840	MG_KG		12800		100000	7700	Y					2.5	20.8	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Antimony	2.08	MG_KG	UJ	1.87	0.9	47	3.1						0.51	4.16	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Arsenic	1.04	MG_KG	U	1.17	5.8	3	0.67						0.291	2.08	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Barium	2.83	MG_KG		36.7	580	22000	1500	Y					0.0229	0.52	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Beryllium	0.0189	MG_KG	J	0.195	63	230	16	Y					0.00635	0.052	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Cadmium	0.104	MG_KG	U	0.2	3	98	7						0.0187	0.208	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Calcium	75.5	MG_KG		8470				Y					1.35	26	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Chromium	2.43	MG_KG		17.4	3.8	6.3	0.3	Y					0.0375	0.52	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Chromium (hexavalent)	0.65	MG_KG		2.73	3.8	6.3	0.3	Y					0.06	0.4	11/26/2013 13:30	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Cobalt	0.169	MG_KG	J	0.414	0.9	35	2.3	Y					0.0364	0.52	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Copper	0.525	MG_KG		17.1	700	4700	310	Y					0.0822	0.52	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	HMX	128	UG_KG	U			5700000	380000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Iron	918	MG_KG		7210	150	82000	5500	Y					1.77	5.2	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Lead	2.48	MG_KG		27.5	270	800	400	Y					0.114	2.08	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Magnesium	56.9	MG_KG		904				Y					0.89	26	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Manganese	1.62	MG_KG		37	65	2600	180	Y					0.0114	1.04	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Mercury	0.0122	MG_KG	U	0.161	1	35	2.3						0.00406	0.0218	11/26/2013 13:30	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Nickel	0.729	MG_KG		3.11	130	2200	150	Y					0.0354	0.52	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						84	400	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Perchlorate	1.04	UG_KG	U			82000	5500						0.522	2.09	11/26/2013 13:30	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	PETN	128	UG_KG	UJ			160000	12000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Potassium	57.2	MG_KG		359				Y					5.1	52	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	RDX	128	UG_KG	U			28000	6000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Selenium	1.04	MG_KG	U	1.59	1.5	580	39						0.333	2.08	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Silver	0.26	MG_KG	U	0.354	3.4	580	39						0.0957	0.52	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Sodium	4.72	MG_KG	J	250				Y					3.12	26	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Tetryl	128	UG_KG	U			160000	12000						64	200	11/26/2013 13:30	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Thallium	1.04	MG_KG	U		0.28	1.2	0.078						0.239	2.08	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Vanadium	3	MG_KG		17.6	6	580	39	Y					0.0406	1.04	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Inside of Crater	MR29-SS09-IC-13D	N	Zinc	1.01	MG_KG	J	28.6	1200	35000	2300	Y					0.218	1.04	11/26/2013 13:30	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	1,3,5-Trinitrobenzene	128	UG_KG	U			3200000	220000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	1,3-Dinitrobenzene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	2,4,6-Trinitrotoluene	128	UG_KG	U			52000	3600						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	2,4-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	2,6-Dinitrotoluene	128	UG_KG	UJ			3400	780						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	2-Amino-4,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	2-Nitrotoluene	128	UG_KG	UJ			15000	3200						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	3-Nitrotoluene	128	UG_KG	UJ			8200	620						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	4-Amino-2,6-dinitrotoluene	128	UG_KG	U			230000	15000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	4-Nitrotoluene	128	UG_KG	UJ			140000	25000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Aluminum	3990	MG_KG		12800		100000	7700	Y					2.92	24.3	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Antimony	2.43	MG_KG	UJ	1.87	0.9	47	3.1						0.596	4.86	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Arsenic	1.22	MG_KG	U	1.17	5.8	3	0.67						0.34	2.43	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Barium	5.57	MG_KG		36.7	580	22000	1500	Y					0.0267	0.608	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Beryllium	0.0222	MG_KG	J	0.195	63	230	16	Y					0.00742	0.0608	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Cadmium	0.122	MG_KG	U	0.2	3	98	7						0.0219	0.243	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Calcium	66.8	MG_KG		8470				Y					1.58	30.4	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Chromium	3.55	MG_KG		17.4	3.8	6.3	0.3	Y					0.0438	0.608	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Chromium (hexavalent)	0.21	MG_KG	J	2.73	3.8	6.3	0.3	Y					0.07	0.47	11/26/2013 13:45	METAL	7199	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Cobalt	0.235	MG_KG	J	0.414	0.9	35	2.3	Y					0.0426	0.608	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Copper	1.03	MG_KG		17.1	700	4700	310	Y					0.096	0.608	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	HMX	128	UG_KG	U			5700000	380000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Iron	904	MG_KG		7210	150	82000	5500	Y					2.07	6.08	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Lead	3.32	MG_KG		27.5	270	800	400	Y					0.134	2.43	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Magnesium	106	MG_KG		904				Y					1.04	30.4	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Manganese	2.18	MG_KG		37	65	2600	180	Y					0.0134	1.22	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Mercury	0.0122	MG_KG	U	0.161	1	35	2.3						0.00408	0.022	11/26/2013 13:45	METAL	7471B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Nickel	0.991	MG_KG		3.11	130	2200	150	Y					0.0413	0.608	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Nitrobenzene	128	UG_KG	UJ			22000	5100						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Nitroglycerin	168	UG_KG	UJ			8200	620						83.8	399	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Perchlorate	1.03	UG_KG	U			82000	5500						0.516	2.06	11/26/2013 13:45	EXPLO	6850M	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	PETN	128	UG_KG	UJ			160000	12000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Potassium	89.5	MG_KG		359				Y					5.96	60.8	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	RDX	128	UG_KG	U			28000	6000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Selenium	1.22	MG_KG	U	1.59	1.5	580	39						0.389	2.43	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Silver	0.304	MG_KG	U	0.354	3.4	580	39						0.112	0.608	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Sodium	5.72	MG_KG	J	250				Y					3.65	30.4	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Tetryl	128	UG_KG	U			160000	12000						63.9	200	11/26/2013 13:45	EXPLO	8330B	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Thallium	1.22	MG_KG	U		0.28	1.2	0.078						0.28	2.43	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Vanadium	3.73	MG_KG		17.6	6	580	39	Y					0.0474	1.22	11/26/2013 13:45	METAL	6010C	SS
UXO-29	WE5A - Runway Exp	Multiple Items/Single Detonation	Outside of Crater	MR29-SS09-OC-13D	N	Zinc	1.53	MG_KG		28.6	1200	35000	2300	Y					0.255	1.22	11/26/2013 13:45	METAL	6010C	SS

Attachment 2

Attachment 2

Analytical Results for Detonation Locations with Explosives Residue Exceedances of Regulatory Screening Criteria

			Regulatory Screening Criteria		**NC SSL**				1.6		
					Residential RSL	220,000	620	3,600	780	780	15,000
					Industrial RSL	3,200,000	8,200	52,000	3,400	3,400	230,000
Site	**Anomaly ID**	**Item Description**	**Sampling Position**	**Sample Date**	**Sample ID**	**1,3,5-Trinitrobenzene**	**1,3-Dinitrobenzene**	**2,4,6-Trinitrotoluene**	**2,4-Dinitrotoluene**	**2,6-Dinitrotoluene**	**2-Amino-4,6-dinitrotoluene**
UXO-19	C5I5H3-00427	Mortar Projectile, 81mm, M56	Inside of Crater	04/06/11	CDCA-SS104-IC-11B	190 U	190 U	190 U	190 U	190 U	190 U
			Outside of Crater	04/06/11	CDCA-SS104-OC-11B	190 U	190 U	190 U	190 U	190 U	190 U
	C5I5D2-00055	Mortar Projectile, 60mm, M49A2	Inside of Crater	04/06/11	CDCA-SS111-IC-11B	174 X, U	174 X, U	**415,000 D**	*571*	174 X, U	1,470 XP
			Outside of Crater	04/06/11	CDCA-SS111-OC-11B	167 X, U	167 X, U	167 U	167 U	167 X, U	167 X, U
	C5I5E4-00147	Mortar Projectile, 81mm, M43	Inside of Crater	04/06/11	CDCA-SS113-IC-11B	903 JP	148 U	**1,780,000 D**	*1,930 P*	162 Z-01a,J	617 P
			Outside of Crater	04/06/11	CDCA-SS113-OC-11B	182 U	182 U	302 J	182 U	182 U	117 J
	C5J5E4-00367	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS160-IC-11C	190 U	190 U	190 U	190 U	190 U	190 U
			Outside of Crater	08/12/11	CDCA-SS159-OC-11C	174 U	174 U	174 U	174 U	174 U	174 U
	C5J5E5-00269	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS162-IC-11C	138 U	87.6 J	138 U	138 U	138 U	138 U
			Outside of Crater	08/12/11	CDCA-SS161-OC-11C	154 U	154 U	154 U	154 U	154 U	154 U
	C5J5E5-00309	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS164-IC-11C	174 U	147 J	174 U	174 U	174 U	174 U
			Outside of Crater	08/12/11	CDCA-SS163-OC-11C	148 U	148 U	148 U	148 U	148 U	148 U
	C5J5A2-00311	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS170-IC-11C	167 U	167 U	167 U	167 U	167 U	167 U
			Outside of Crater	08/12/11	CDCA-SS169-OC-11C	138 U	138 U	138 U	138 U	138 U	138 U
	T20-00017	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP01-10A	20.6 JP	64.1	7,190 J	*41.7 J*	42.1 JPM	88.7
	T20-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP02-10A	27.6 J	172 PM	**129,000 D**	*580*	177	635 P
	T18-00017	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP03-10A	65	131	19,300	*20.2*	69.6 P	242 P
	TTL-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/09/10	CDCA-SSBIP04-10A	26.4 JPM	194	19,300	*203*	65.9 PM	238
	T53-00050	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP05-10A	60 U	39.6 JPM	**130,000 D**	*387*	123	92.7 PQM
	T52-00041	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/10/10	CDCA-SSBIP06-10A	60 U	60 U	5,140	*7,040*	216 P	119 P
	T44-00016	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/14/10	CDCA-SSBIP07-10A	50.1 JP	210 P	4,210	*78.6*	79.3	178 P
UXO-06	F4E6A3-00029	Rocket, 3.5 Inch, HEAT, M28A2	Inside of Crater	11/19/09	MR06-SS83-0-6-09D	190 U	190 U	51,000	*200*	190 U	2,000 J

Notes:

All results are in units of micrograms per kilogram

Shading indicates detection.

Italic Font indicates exceedance of North Carolina Federal Remediation Branch Soil Screening Levels (NC SSL), February 2012

Bold text indicates exceedance of Adjusted United States Environmental Protection Agency Industrial Soil Regional Screening Level (RSL), May, 2014.

Underline indicates exceedance of Adjusted Residential Soil RSL, May, 2014

RSLs were adjusted for noncarcinogens to account for exposure to multiple constituents

D - Compound identified in an analysis at a secondary dilution factor

J - Analyte present, value may or may not be accurate or precise

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The matrix spike/matrix spike duplicate (MS/MSD) accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated paramete

P - The associated value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations.

Q - The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side

Z-01 - Unable to confirm presence of compound due to co-elution with 2,4,6-TNT on the primary column; result should be considered estimated.

Z-01a - The parameter shows lack of confirmation/detection, which may be due to a negative bias in the initial calibration verification (ICV) or continuing calibration verification (CCV) which exceeds the lower control limi

Attachment 2

Analytical Results for Detonation Locations with Explosives Residue Exceedances of Regulatory Screening Criteria

			Regulatory Screening Criteria		**NC SSL**							
					Residential RSL	3,200	620	15,000	25,000	380,000	5,100	620
					Industrial RSL	15,000	8,200	230,000	140,000	5,700,000	22,000	8,200
Site	**Anomaly ID**	**Item Description**	**Sampling Position**	**Sample Date**	**Sample ID**	**2-Nitrotoluene**	**3-Nitrotoluene**	**4-Amino-2,6-dinitrotoluene**	**4-Nitrotoluene**	**HMX**	**Nitrobenzene**	**Nitroglycerin**
UXO-19	C5I5H3-00427	Mortar Projectile, 81mm, M56	Inside of Crater	04/06/11	CDCA-SS104-IC-11B	190 U	190 U	190 U	190 U	190 U	190 U	476 U
			Outside of Crater	04/06/11	CDCA-SS104-OC-11B	190 U	190 U	190 U	190 U	190 U	190 U	1,020
	C5I5D2-00055	Mortar Projectile, 60mm, M49A2	Inside of Crater	04/06/11	CDCA-SS111-IC-11B	174 U	174 U	2,050 P	174 X, U	174 U	174 U	435 U
			Outside of Crater	04/06/11	CDCA-SS111-OC-11B	167 U	167 U	167 U	167 X, U	167 U	167 U	417 U
	C5I5E4-00147	Mortar Projectile, 81mm, M43	Inside of Crater	04/06/11	CDCA-SS113-IC-11B	148 U	148 U	1,760 Z-01a	148 U	148 U	148 U	370 U
			Outside of Crater	04/06/11	CDCA-SS113-OC-11B	182 U	182 U	234 J	182 U	182 U	182 U	455 U
	C5J5E4-00367	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS160-IC-11C	190 U	190 U	190 U	190 U	190 U	190 U	1,050
			Outside of Crater	08/12/11	CDCA-SS159-OC-11C	174 U	174 U	174 U	174 U	174 U	174 U	1,340
	C5J5E5-00269	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS162-IC-11C	138 U	138 U	138 U	138 U	138 U	138 U	1,770
			Outside of Crater	08/12/11	CDCA-SS161-OC-11C	154 U	154 U	154 U	154 U	154 U	154 U	565 J
	C5J5E5-00309	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS164-IC-11C	174 U	174 U	174 U	174 U	174 U	174 U	848 J
			Outside of Crater	08/12/11	CDCA-SS163-OC-11C	148 U	148 U	148 U	148 U	148 U	148 U	2,220
	C5J5A2-00311	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS170-IC-11C	4,960	167 U	167 U	167 U	167 U	167 U	417 U
			Outside of Crater	08/12/11	CDCA-SS169-OC-11C	168 J	138 U	138 U	138 U	138 U	138 U	345 U
	T20-00017	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP01-10A	60 U	60 U	60 UJ	60 U	60 UQ	60 U	156 JQ
	T20-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP02-10A	60 U	27.5 JP	369 Z-01	54.5 J	27.6 JPQ	60 U	135 JPQ
	T18-00017	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP03-10A	60 U	60 U	176 Z-01	60 U	25.9 JPQ	60 U	166 JPQ
	TTL-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/09/10	CDCA-SSBIP04-10A	60 U	60 U	178 Z-01	60 U	31.5 JPQ	60 U	160 JPQ
	T53-00050	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP05-10A	60 U	60 U	133 Z-01	60 U	60 UQ	60 U	300 UQ
	T52-00041	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/10/10	CDCA-SSBIP06-10A	60 U	60 U	60 U	60 U	60 UQ	60 U	229 JPQ
	T44-00016	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/14/10	CDCA-SSBIP07-10A	60 U	60 U	60 UJ	60 U	60 U	60 U	123 JP
UXO-06	F4E6A3-00029	Rocket, 3.5 Inch, HEAT, M28A2	Inside of Crater	11/19/09	MR06-SS83-0-6-09D	190 U	190 U	4,000 J	190 U	32,000	190 U	310 J

Notes:

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Underline indicates exceedance of Adjusted Residential Soil RSL, May, 2014

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Z-01a - The parameter shows lack of confirmation/detection, which may be due to a negative bias in the initial calibration verification (ICV) or continuing calibration verificatio

Attachment 2

Analytical Results for Detonation Locations with Explosives Residue Exceedances of Regulatory Screening Criteria

			Regulatory Screening Criteria		**NC SSL**				
					Residential RSL	5,500	12,000	6,000	12,000
					Industrial RSL	82,000	160,000	28,000	160,000
Site	**Anomaly ID**	**Item Description**	**Sampling Position**	**Sample Date**	**Sample ID**	**Perchlorate**	**PETN**	**RDX**	**Tetryl**
UXO-19	C5I5H3-00427	Mortar Projectile, 81mm, M56	Inside of Crater	04/06/11	CDCA-SS104-IC-11B	5.09 J	476 U	190 U	190 U
			Outside of Crater	04/06/11	CDCA-SS104-OC-11B	2.19 U	476 U	190 U	190 U
	C5I5D2-00055	Mortar Projectile, 60mm, M49A2	Inside of Crater	04/06/11	CDCA-SS111-IC-11B	0.681 J	435 X, U	174 U	4780 X
			Outside of Crater	04/06/11	CDCA-SS111-OC-11B	1.28 J	417 X, U	167 U	167 X, U
	C5I5E4-00147	Mortar Projectile, 81mm, M43	Inside of Crater	04/06/11	CDCA-SS113-IC-11B	1.67 J	370 U	148 U	148 U
			Outside of Crater	04/06/11	CDCA-SS113-OC-11B	2.21 U	455 U	182 U	182 U
	C5J5E4-00367	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS160-IC-11C	2.16 U	476 U	190 U	190 U
			Outside of Crater	08/12/11	CDCA-SS159-OC-11C	2.15 U	435 U	174 U	174 U
	C5J5E5-00269	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS162-IC-11C	2.15 U	345 U	138 U	138 U
			Outside of Crater	08/12/11	CDCA-SS161-OC-11C	2.13 U	385 U	154 U	154 U
	C5J5E5-00309	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS164-IC-11C	2.16 U	435 U	174 U	174 U
			Outside of Crater	08/12/11	CDCA-SS163-OC-11C	2.19 U	370 U	148 U	148 U
	C5J5A2-00311	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS170-IC-11C	2.28 U	417 U	167 U	167 U
			Outside of Crater	08/12/11	CDCA-SS169-OC-11C	2.51 U	345 U	138 U	138 U
	T20-00017	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP01-10A	2.35 U	300 U	60 U	60 U
	T20-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP02-10A	2.36 U	300 U	60 U	399
	T18-00017	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP03-10A	2.67 U	300 U	35.1 JPM	60 U
	TTL-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/09/10	CDCA-SSBIP04-10A	975 D	300 U	42.3 JPM	50.8 JP
	T53-00050	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP05-10A	2.21 U	300 U	60 U	546
	T52-00041	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/10/10	CDCA-SSBIP06-10A	2.21 U	300 U	27.6 JPM	54.6 J
	T44-00016	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/14/10	CDCA-SSBIP07-10A	5.34	300 U	41 J	1,290 J
UXO-06	F4E6A3-00029	Rocket, 3.5 Inch, HEAT, M28A2	Inside of Crater	11/19/09	MR06-SS83-0-6-09D	2.43 U	640 U	**98,000**	190 R

Notes:

All results are in units of micrograms per kilogram

Shading indicates detection.

Italic Font indicates exceedance of North Carolina Federal Remediation Branch Soil Screening Levels (NC SSL), February 2012

Bold text indicates exceedance of Adjusted United States Environmental Protection Agency Industrial Soil Regional Screening Level (RSL), May, 2014.

Underline indicates exceedance of Adjusted Residential Soil RSL, May, 2014

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Attachment 3

Attachment 3

Analytical Results for Detonation Locations with Metals Exceedances of Regulatory Screening Criteria with Exceedances of Explosives Residue Criteria

Site	Anomaly ID	Item Description	Sampling Position	Sample Date	Sample ID	Aluminum	Antimony	Arsenic	Chromium	Cobalt	Iron	Lead	Manganese	Thallium
			Regulatory Screening Criteria		**BTV**	12,800	1.87	1.17	17.4	0.414	7210	27.5	37	None
					Residential RSL	7,700	3.1	0.67	0.3	2.3	5,500	400	180	0.078
					Industrial RSL	100,000	47	3	6.3	35	82,000	800	2,600	1.2
					NC SSL	None	0.9	5.8	3.8	0.9	150	270	65	0.28
UXO-19	C5I5H3-00427	Mortar Projectile, 81mm, M56	Inside of Crater	04/06/11	CDCA-SS104-IC-11B	7,940	0.438 UN	1.1	*6.98*	0.407 J	4,610	7.38	8.18 N	0.219 M, U
			Outside of Crater	04/06/11	CDCA-SS104-OC-11B	3,900	0.448 UN	0.843	3.67	0.56 Y, U	3,580	9.61	10.7 N	0.224 Y, U
	C5I5D2-00055	Mortar Projectile, 60mm, M49A2	Inside of Crater	04/06/11	CDCA-SS111-IC-11B	2,260 D	0.424 YUN	0.724	3.44	0.409 Y, J	1,680	3.87 D	38.7	0.212 YUN
			Outside of Crater	04/06/11	CDCA-SS111-OC-11B	1,830 D	0.671 YN	2.61	***16.6***	3.72 Y	21,400	7.72 D	*408*	0.212 YUN
	C5I5E4-00147	Mortar Projectile, 81mm, M43	Inside of Crater	04/06/11	CDCA-SS113-IC-11B	2,170	0.406 YUN	0.558	2.82	0.508 Y, U	1,780	1.15 Y	10.4	0.203 YUN
			Outside of Crater	04/06/11	CDCA-SS113-OC-11B	4,450	0.436 YUN	0.974	4.04	0.275 Y, J	2,510	5.05 Y	22.2	0.218 YUN
	C5J5E4-00367	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS160-IC-11C	5,570	0.433 UJ	0.967	4.14	0.333 J	2,900	6.72	54.9	0.217 U
			Outside of Crater	08/12/11	CDCA-SS159-OC-11C	4,990	0.439 UJ	0.968	4.13	0.334 J	2,700	6.78	46.2	0.219 U
	C5J5E5-00269	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS162-IC-11C	5,470	0.422 UJ	0.925	3.75	0.295 J	2,510	5.74	37.1	0.211 U
			Outside of Crater	08/12/11	CDCA-SS161-OC-11C	5,600	0.434 UJ	1.01	4.13	0.313 J	2,900	6.86	46.5	0.217 U
	C5J5E5-00309	Mortar Projectile, 60mm, M49A2	Inside of Crater	08/12/11	CDCA-SS164-IC-11C	5,660	0.43 UJ	0.927	4.09	0.307 J	2,570	5.88	37.8	0.215 U
			Outside of Crater	08/12/11	CDCA-SS163-OC-11C	5,520	0.418 UJ	0.989	4.37	0.34 J	2,860	6.85	59.6	0.209 U
	C5J5A2-00311	Mortar Projectile, 81mm, M56	Inside of Crater	08/12/11	CDCA-SS170-IC-11C	6,020	0.464 UJ	1.47	4.56	0.445 J	3,510	11.7	27.8	0.348 U
			Outside of Crater	08/12/11	CDCA-SS169-OC-11C	6,300	0.505 UJ	1.66	4.86	0.497 J	3,780	13	33.2	0.379 U
	T20-00017	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP01-10A	NA	0.857 UN	1.39	NA	NA	NA	8.47	NA	NA
	T20-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/07/10	CDCA-SSBIP02-10A	NA	0.839 UN	0.91	NA	NA	NA	9.45	NA	NA
	T18-00017	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP03-10A	NA	0.993 UN	1.34	NA	NA	NA	9.22	NA	NA
	TTL-00015	Mortar Cartridge, 81mm, M43	Inside of Crater	03/09/10	CDCA-SSBIP04-10A	NA	0.828 UN	0.958	NA	NA	NA	7.18	NA	NA
	T53-00050	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/09/10	CDCA-SSBIP05-10A	NA	0.83 UN	0.77	NA	NA	NA	4.88	NA	NA
	T52-00041	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/10/10	CDCA-SSBIP06-10A	NA	0.805 U	0.924	NA	NA	NA	7.68	NA	NA
	T44-00016	Mortar Cartridge, 60mm, M49A2	Inside of Crater	03/14/10	CDCA-SSBIP07-10A	NA	0.85 U	0.604	NA	NA	NA	8.61	NA	NA
UXO-06	F4E6A3-00029	Rocket, 3.5 Inch, HEAT, M28A2	Inside of Crater	11/19/09	MR06-SS83-0-6-09D	3,530	0.906 UJ	0.495	4.09 J	0.755 U	2270	14.6	7.02	0.483 U

Notes:

All results are in units of micrograms per kilogram

Shading indicates exceedance of the background threshold value (BTV) for combined surface soils in undeveloped areas

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Bold text indicates exceedance of Adjusted United States Environmental Protection Agency Industrial Soil Regional Screening Level (RSL), Nov, 2011.

Underline indicates exceedance of Adjusted Residential Soil RSL, November 2011

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