

DEPARTMENT OF THE AIR FORCE HEADQUARTERS 49TH WING (ACC) HOLLOMAN AIR FORCE BASE, NEW MEXICO

RECEIVED JAN 26 2016 NMED **Hazardous** Wast Dureau 21 January 20

ADAM M. KUSMAK, GS-13, USAF Chief, Installation Management Flight (49 CES/CEI) 49th Civil Engineer Squadron (49 CES) Holloman Air Force Base, NM

USEPA, Region 6 (6PD-F) Attn: Mr. Chuck Hendrickson, Project Manager 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733

Dear Mr. Hendrickson,

Holloman AFB is pleased to submit the Response to Comments document for the Final SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Work Plan, Holloman Air Force Base, NM.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions regarding this submittal, please contact me at (575) 572-6675 or by email at adam.kusmak@us.af.mil.

Sincerely,

KUSMAK.ADAM M.1263331806 Digitally signed by KUSMAKADAM.M.1263331806 Dist. cutS, or U.S. Government, ou=DoD, Ou=PKI, ou=USAF, ou=PKI, ou=USAF, cn=KUSMAK.ADAM.M.1263331806 Date: 2016.01.22 09:31:22-07'00' ADAM M. KUSMAK, GS-13, USAF

Attachment:

Response to Comments - Final SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Work Plan, Holloman Air Force Base, New Mexico.

cc:

(w/Atch) Mr. David Strasser Hazardous Waste Bureau 121 Tijeras Dr. NE Ste. 1000 Albuquerque NM 87109-4127 (w/Atch) Mr. John Kieling, Chief Hazardous Waste Bureau 2905 Rodeo Park Dr, East, Building 1 Santa Fe NM 87505-6303 (w/o Atch) Mr. Will Moats Hazardous Waste Bureau 121 Tijeras Dr. NE Ste. 1000 Albuquerque NM 87109-4127

The information herein is For Official Use Only (FOUO) which must be protected under the Freedom of Information Act of 1966 and Privacy Act of 1974, as amended. Unauthorized disclosure or misuse of this PERSONAL INFORMATION may result in criminal and/or civil penalties.

GLOBAL POWER FOR AMERICA

Common Comment and Response Worksheet (Version 3)

Date		Surve	eillance Act	tivity Numb	er	Document Title (version)	Contract/TC
		s	SubCLIN 00 SubCLIN (68AA and 0069AA		Final SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Work Plan Holloman Air Force Base, New Mexico, February 2015	FA8903-13
Iten	Source	Section	Page	Para	Class	Comment	Respo
1	NMED	General	xi	3		This paragraph indicates that the Remedial Investigation (RI) for these two former skeet ranges will be performed "in accordance with the Comprehensive Environmental Response, Compensation, and liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reautherization Act (SARA) of 1986." In a letter dated July 14, 2014, NMED advised the Permitee that closed ranges are fully subject to the corrective action requirements of the Resource Conservation and Recovery Act (RCRA), the New Mexico Hazardous Waste Act, and the New Mexico Hazardous Waste Management Regulations. In addition, in a letter dated November 26, 2014, the United States Environmental Protection Agency (EPA) advised the Permittee that these non-operational ranges are fully subject to corrective action under 40 C.F.R § 264.101. which is incorporated in the Facility's Hazardous Waste Permit issued by the NMED. The NMED is therefore reviewing this RI Work Plan (RI WP) under the authroity of RCRA, the New Mexico Hazardous Waste Act, the New Mexico Hazardous Waste Management Regulations, and the Facility's Hazardous Waste Permit. However, apart from the format, sufficient information has been presented in the subject document for effective review.	Noted. The USEPA created a guidance, Unexploded Ordnand cleanup of "other than operational ranges" (which were the [CTT] ranges)." This remains EPA policy. In that policy docun " A process consistent with Comprehensive Environmenta and these management principles will be the preferred resp The legal authorities that support site-specific response a CERCLA, as delegated by Executive Order (E.O.) 12580 and the Plan (NCP); the Defense Environmental Restoration Program Since both SR859a and TS862a Munitions Response Sites (M Military Munitions Response Program (MMRP) created by C 211 of the Superfund Amendments and Reauthorization Act under the MMRP CERCLA cleanup process. Upon initiation o based upon the CERCLA regulatory process. This Work Plan v at the time of transmittal. Based on information provided of January 26th 2015. A summary to this particular comment is preference for conducting munitions response actions under OSWER guidance document. Holloman AFB has for some ti actions at Holloman in general for munitions responses and action now would cause needless backtracking and duplicati conducted consistent with CERCLA and the NCP should subs requirements. Please note that the courtesy copy of all deliv

O Number

3-C-0008

ise

ce Management Principles, in 2000 to address the en referred to as "closed, transferred and transferring ment, EPA states:

al Response, Compensation, and Liability Act (CERCLA) bonse mechanism used to address UXO at a CTT range. actions at CTT ranges include, but are not limited to, the he National Oil and Hazardous Substances Contingency n (DERP); and the DOD Explosives Safety Board (DDESB)." ARSs) have been addressed under the U.S. Air Force congress in 2001 under the DERP as established by Section t (SARA) of 1986 these sites are subject to regulation of this contract, site goals, decisions, and schedules were was submitted per USAF policy under the CERCLA process above, no revisions of the WP are required.

o Comments document was prepared and submitted on is provided herafter: " The EPA has long-recognized DoD's er CERCLA, a preference recently recognized in an EPA ime been utilizing a CERCLA-type process to conduct such these sites in specific. To switch to RCRA corrective tion. Besides, as recognized by EPA, munitions responses stantively satisfy state RCRA type corrective action iverables is provided to NMED."

Date Surveillance Activ		nce Activity Number		Document Title (version)	Contract/TO		
SubCLIN 0068AA and SubCLIN 0069AA			68AA and 0069AA		Final SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Work Plan Holloman Air Force Base, New Mexico, February 2015	FA8903-13-	
Item	Source	Section	Page	Para	Class	Comment	Respon
2	NMED		xii ES and pg 15 QAPP WS10	ES 1&3 WS10-1		Inese paragraphs indicate that the Keport for the Phase II Comprehensive Site Evaluation (CSE) conducted in 2013 at both Munitions Reponse Areas (RSR59 and TSS62) commended splitting them into two Munitions Response Sites (MRS5) each: SR859 (JA: 3 acree) and SR859a (B acree) and TSR62 (JA: 6 acree) and TSR62a (S.7 acree). This was recommended based on the perceived lack of Munitions and Explosives of Concern (MEC) and Munitions Constituents (MC) exceeding regulatory sceeening levels at MRSs SR859 and TSR62) were recommended for future munitions response actions due to MC: No further munition response activities are proposed for the larger MRSs (SR859 and TSR62). However, Figure 2 of the RI WP shows that lead shot is scattered throughout MRS SR859. The legend for figure 3 of the RI WP shows a symbol for lead shot, but no lead shot symbols appear within the MRS on the Figure. A walkover of both MRSs con-ducted on July 30, 2015 by NMCD and base environmental staff found lead shot scat-tered extensively on the ground surface at both of the larger MRSs. Although the Phase II CSE soil investigation found no MCs exceeding screening levels at both of the larger MRSs. Although the Phase II MSS SR859, it appears that visible in a walkover source is to be surface at several locations within these two areas. The lead shot accurring in masses that are visible in a walkover survey is clear swithing methods failed to detect the shot and led to conclusions based upon results which are not representative of site conditions. During the Phase II CSE, X-ray flourescence (XRF) was utilized in the field to survey the soil at both MRSs for lead -However, KRF should only be used as a field screening tool or in combination with data obtard paralysis using EPA SW. A66 methods. NMED does not accept XRF survey data by tiseff as providing conclusive results for determining the nature and weaktert of contamination. Furthermore, although Figures 2 and 3 of the RI WP provide the locations of XRF samples, they only indicate whether the insults	INOTEG. INE SK839 MIKS and 15862 MIKS were thoroughly inve although lead shot was found throughout the MRSs, results f methodology (SW846 3050/6010 which specifies removal of a sticks, leaves, and rocks etc.) did not indicate unacceptable mg/kg. Including fragments of lead shot in samples would on the CSE Phase II was to analyze potential impacts to soil from and PAH sampling data, including laboratory, XRF lead correls and PAHs) are presented in the Final CSE Phase II Report (Sep presented in Section 5.21 of the CSE Phase II report indicated XRF data are considered to be definitive and can be used in t The purpose of the referenced figures in Work Plan are to sho not data. As the CSE Phase II indicated, although lead shot is not a contaminant of concern. In review of Figure 3 from the that the lead shot symbol on the figure was incorrect and wa figure and was not consistent with the legend. This was not of The Final CSE Phase II Report recommended only SR859a and activities. The other MRSs were recommended for NFA. The assessment methods to assess the impacts of contamination soil at SR859 and TS862 MRSs do not pose an unacceptable ri be restricted to those MRSs (SR859a and TS862a) moving for

Number

C-0008

ise

estigated during the CSE Phase II investigation and from soil samples collected using USEPA approved particles larger than 2mm and any foreign objects such le risk. All results were below the USEPA RSL of 400 mly verify that shot consists of lead. The objective during m lead shot and clay target debris. All CSE Phase II lead lation data, and point-specific sampling results (for lead eptember 2013). The results from correlation data d a correlation coefficient of 0.99, concluding that the the risk assessment and for remdial decision-making. how site features as reported from the CSE Phase II and s present on the surface, soil results indicated that lead is e Work Plan as compared to the CSE Phase II it appears as displayed the same as the projectile symbol on the caught during the review process.

d TS862a MRSs to move forward for additional response e CSE Phase II used USEPA approved analytical and risk to human and ecological receptors and concluded the risk. As such, the focus of the RI and follow-on work will rward in the program.

	Date Surveillance Activity Number			tivity Numb	er	Document Title (version)	Contract/TC
	SubCLIN 0068AA and SubCLIN 0069AA					Final SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Work Plan Holloman Air Force Base, New Mexico, February 2015	FA8903-13
Item	Source	Section	Page	Para	Class	Comment	Respo
3	NMED		20 WS11	Dec. Rules 2&3		Decision Rule 2 states "If the concentrations of metals and/or PAHs in soil exceed the project action limits, then a range of data points exceeding the project action limits from the site dataset will be analyzed to determine if the analytes will leach from the soil utilizing USEPA's synthetic precipilation leaching procedure (SPLP)". Decision Rule 3 then states that the leachate concentrations resulting from the SPLP analysis will be used to determine if the site is subject to further remedial action (e.g. soil removal) to protect groundwater. NMED does not agree with this protocol. If, as a result of soil sample analysis, MCs are found in excess of the NMED Soil Screening Levels (SSLs), including evaluation of the dilution attenuation factor (DAF), or the EPA's Regional Screening Levels (RSLs), the Permittee will be required to remediate the soil as necessary to achieve an acceptable level of risk to both human and ecological receptors, and to groundwater. The Permittee shall submit a work plan incorporating the above revisions in protocol.	Noted. Following the decision rules indicates that any soil ar above stated action levels are subject to remdial actions (e.g Removal of contaminated soil that exceeds the project actio sampling to ensure all contamination is removed or if addition exceeding the soil RSL and/or soils that result in leachate exc #15. Decision Rule 3 indicates that upon review of SPLP anal warranted. An example is given of soil removal to protect gr human and/or ecological receptors.
4	NMED		43 WS15	Project Action Limits		The following Project Action Levels for soils (as RSLs or SSLs, shown in mg/kg), as provided on Worksheet #15, need to be revised: Antimony: RSL should be 31, not 3.1 Copper: RSL should be 3,100 not 310 Zinc: RSL should be 23,00, not 2,300 Acenaphthene: RSL should be 3,500. not 350 Benzo(a)pyrene: RSL should be 3,500. not 350 Fluorene: RSL should be 2,300, not 230 Fluorene: RSL should be 2,300, not 230 2-methylnaphthalene: RSL should be 2,300, not 23 Pyrene: RSL should be 1,700, not 170 In addition, the "NMED Water Quality Standard" for copper should be 1,000 micrograms per liter (μg/L) and that for zinc should be 10,000 μg/L, not "NA", as per Other Standards for Domestic Water Supply, 20.6.2.3103(9) NMAC. In addition, either the default the value based on a DAF of 20 or a calculated site-specific DAF must be included for each compound in the worksheet. The Permittee shall submit a work plan incorporating the above revisions.	Noted. For all compounds listed aside from Benzo(a)pyrene RSL tables with a more conservative Target Hazard Quotient suggested. For Benzo(a)pyrene - Agreed the NMED value sh presented (0.015) is more conservative and will be utilized fo It should be noted that USEPA RSL values were current at th screening values have since changed. Table 15 provides the USEPA MCL values for SPLP leachate c 20.6.2.3103(9) of the NMAC Other Standards for Domestic W or domestic water supply standards are not applicable in thi determine if potential soil contaminants would leach out of
5	NMED		47 WS17	3&4		These paragraphs, addressing MRSs SR859a and TS862a, indicate that based upon soil sample results, remedial options will be evaluated in an Engineering Evaluation/Cost Analysis (EE/CA) document. In order to be compliant with the Facility's Hazardous Waste Permit, the Permittee is required to submit a work plan as described in Item 2 above in lieu of the EE/CA for NMED review, prepared in accordance with Permit Section IV.L.	Noted . Please see response to Comment #1. Upon evaluatio Investigation Report, an EE/CA will be prepared to evaluate contaminated soil. Following the EE/CA a NTCRA Work Plan
6	NMED	Appendix E		Tables 5-9 & 5-13		When resubmitting these sampling result tables, the Permittee shall include columns for NMED and EPA screening levels (SSLs and RSLs). In addition, as referred to in Comment #2 above, results of the CSE Phase II XRF survey for both sites were not included in this Appendix. The Permittee shall provide the XRF results in the work plan.	Noted. These tables are direct pages from the Final CSE Pha Plan. The RI Report will include USEPA RSLs and NMED scree the CSE Phase II concluded that lead was not a COC at these CSE Phase II data can be found in the CSE Phase II Report.
						The Permittee shall submit the work plan for MRSs SR859 and TS862 as well as SR859a and TS862a to NMED on or before November 23,2015 in the form of two paper copies and one electronic copy {in MS Word/ Excel™ format}.	Noted. Please see response to Comment #1. A revised Work and TS862a is not warranted. The Final CSE Phase II Report r forward for additional munitions response activities. The ot The CSE Phase II used USEPA approved analytical and risk as PAHs to human and ecological receptors and concluded that an unacceptable risk. As such this RI and follow-on EE/CA, A TS862a.
L		1	I	1	I	1	1

Column A:	Comment Identifier Number	Comment Classifications
Column B:	Source (Commenter/Authority)	(C) Critical: Critical comments will result in a critical issue. Provide convincing support.
Column C:	Section Number of Comment	(M) Major: Major comments are significant concerns that may result in a major issue. This category may be used with a general statement of concern followed by a detailed comment on the total, constitute the concern.
Column D:	Page Number of Comment (first page associated with comment)	(S) Substantive: An entry in the document that appears to be or is potentially unnecessary, misleading, incorrect, or confusing.
Column E:	Paragraph number, on page, of Comment	(A) Administrative: Administrative comments correct inconsistencies between different sections, typographical and grammatical errors.
	Line Number (within Paragraph above) of	
Column F:	Comment	

O Number

3-C-0008

onse

nd/or soil leachate samples that exhibit results of COCs g. soil removal etc.). As stated in Decision Rule 4 on limits set forth in Worksheet #15 with confirmation soil ional removal is needed. This includes both soil acceeding the screening values presented in Worksheet lysis further investigation of groundwater may be groundwater to achieve levels that do not pose a risk to

e, the values presented were obtained from the USEPA t (THQ) of 0.1 not the values from a THQ of 1.0 as nould be presented as 0.148, however the USEPA value for screening during this project.

ne time of the WP preparation and some compound

comparison along with values from Subsection B of Nater Supply. Comparison to USEPA tapwater standards is scenario as the SPLP leacheate analysis a model to the soil.

on of results to be presented in the Remedial potential alternatives and associated costs to mitigate n will be prepared prior to any soil removal activities.

ase II Report and not created appendices for this Work eening levels for comparison of sample results. Given that e sites, the XRF data was excluded from the appendix. All

k Plan including MRSs SR859 and TS862 as well as SR859a recommended only SR859a MRS and TS862a MRS move ther MRSs SR859 and TS862 were recommended for NFA. ssessment methods to assess the impacts of lead and it the soil within SR859 and TS862 boundaries do not pose Action Memo and NTCRA will be restricted to SR859a and

the specific entries in the document that, considered in

	Date	Surv	eillance Act	ivity Numb	er	Document Title (version)	Contract/TO
		:	SubCLIN 000 SubCLIN (58AA and 0069AA		Final SR859a Former Skeet Range 2 and TS862a Jeep Target Area Skeet Range Remedial Investigation Work Plan Holloman Air Force Base, New Mexico, February 2015	FA8903-13-0
Item	Source	Section	Page	Para	Class	Comment	Respons
Colum	n C:	Commont Cla	crification				

Column G: Comment Classification

Column H: Comment

Column I: Response

Notes: Comments must be actionable ("add the following text:...", "delete...", "change text to:")

Place only one comment per row.

Classify comment as C, M, S, or A.

Number

C-0008

ise