

FINAL
**RESPONSE ACTION COMPLETION REPORT
OPEN BURN/OPEN DETONATION AREA A-1
CASTNER RANGE, FORT BLISS, TEXAS**

Prepared for



FORT BLISS



**U.S. Army Corps of Engineers
Tulsa District
1645 South 101st Avenue
Tulsa, Oklahoma 74128**

Prepared by

**Shaw Environmental, Inc.
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Houston, Texas 77042**

**TERC No. DACA56-94-D-0020, Task Order No. 0062
Shaw Project No. 783981**

January 2008

Check the reports/forms submitted:

Remedy Standard A

Self-Implementation Notice Submittal date: October 4, 2006
 Response Action Plan - Approval date: _____

Remedy Standard B

Response Action Plan - Approval date: _____

List all media (surface soil, subsurface soil, groundwater, sediment, surface water, air) that contained or contains a PCLE zone and specify the response action taken for each media. Indicate the type of removal, decontamination, physical control, or institutional control action that was used in the response action. If a media with a PCLE zone was not addressed in the response action, provide an explanation below.

Media	COCs ¹	Removal	Decontamination	Physical Control	Institutional Control	Modified Response Objective ²		
						PMZ	WCU	TI
Soil	Pesticides	Excavation						

Is there a media that contains a PCLE zone that was not addressed in the response action? yes no
 If yes, provide justification for not addressing the PCLE zone in the response action.

Current land use of the on-site affected property: Residential Commercial/industrial
 Projected future land use of the on-site property (if known): Residential Commercial/industrial

Explain why you believe the response action to be complete.

The response action is complete because the source material has been removed. Following completion of the response action, confirmation samples verified that no pesticide concentrations exceeded the critical PCL.

¹ Specify either a specific COC or, if the response action is the same for all COCs in one type, specify the type of COC (for example, VOCs, SVOCs, metals).

² If a modified groundwater response objective was used, check the type(s) of modifications.

Chronology

Fort Bliss Open Burn/Open Detonation Area A-1 Castner Range, Fort Bliss, Texas

2007

Shaw Environmental & Infrastructure, Inc. (Shaw) completed a Response Action for Open Burn/Open Detonation (OB/OD) Area A-1 from July 9 to July 19, 2007. Soils containing pesticide were removed. Pesticide analysis confirmed that concentrations remaining in the soil do not exceed the critical PCL.

2006

A meeting was held with Allan Posnick, TCEQ on September 9, 2006, to discuss the path forward to complete a response action for OB/OD Area A-1. The discussion centered on using the Tier 1 residential PCL, limiting the excavations to sidewalls that are hot, and confirmation sampling. Shaw will prepare a Response Action Completion Report (RACR) to close the site under Remedy Standard A.

Shaw mobilized to OB/OD Area A-1 in April 2006 to delineate and collect additional samples from soils adjacent to locations where concentrations of pesticides exceeded the applicable PCL in the confirmation sampling of February 2006.

Shaw mobilized to OB/OD Area A-1 in February 2006 to perform excavation activities at five locations. Confirmation samples were collected from each of the excavations. Results indicated that concentrations of pesticides remained above the Tier 1 residential PCL.

2005

In a letter dated July 8, 2005, TCEQ indicated the investigation of OB/OD Area A-1 had been completed in accordance with 30 Texas Administrative Code 350.51. However, an additional response action was necessary to address pesticide concentrations exceeding the Tier 1 residential PCL in several locations at OB/OD Area A-1.

2003

A Final Affected Property Assessment Report, Open Burn/Open Detonation Area A-1 (FTBL-073), Castner Range, Fort Bliss, Texas (Shaw, 2003) was completed and submitted to TCEQ in January.

2002

Field sampling investigation activities were performed in February 2002 at OB/OD Area A-1 to delineate the nature and extent of constituents present in the soils. The sampling results indicated that four sample locations exceeded the Tier 1 PCLs.

Checklist for Report Completeness

Solid Waste Registration
ID No. 63003

Report Date:
January 2008

Checklist for Report Completeness

Use this checklist to determine the portions of the form that must be submitted for this report. Answer all questions by checking Yes or No. If the answer is Yes include that portion of the report. If the answer is No, do not complete or submit that portion of the report. All form contents that are marked "Required" must be submitted. Form contents marked with an asterisk (*) are not included in the blank form and are to be provided by the person.

Report Contents

	Required		Cover Page	X
	Required		Executive Summary	X
	Required		Checklist for Report Completeness	X
	Required		Worksheet 1.0 Confirmation of Response Action Objectives	X
	Required		Attachment 1A* Maps and Cross Sections	X
	Required		Attachment 1B* Graphs	X
	Required		Attachment 1C* Response Action Diagrams	X
No X		<input type="checkbox"/> Yes	Worksheet 2.0 Plume Management Zone	<input type="checkbox"/>
			Attachment 2A* Map of Plume Management Zone	<input type="checkbox"/>
No X		<input type="checkbox"/> Yes	Worksheet 3.0 Technical Impracticability	<input type="checkbox"/>
			Attachment 3A* Map of Technical Impracticability Area	<input type="checkbox"/>
No X		<input type="checkbox"/> Yes	Worksheet 4.0 Institutional Controls	<input type="checkbox"/>
	Required		Worksheet 5.0 Performance Measures and Problems	X
No X		<input type="checkbox"/> Yes	Worksheet 6.0 Operation and Maintenance	<input type="checkbox"/>
No X		<input type="checkbox"/> Yes	Worksheet 7.0 Post-Response Action Care	<input type="checkbox"/>
No <input type="checkbox"/>		X Yes	Appendix 1* References	X
No X		<input type="checkbox"/> Yes	Appendix 2* ESA and Compensatory Restoration	<input type="checkbox"/>
No X		<input type="checkbox"/> Yes	Appendix 3* Institutional Controls and Landowner Concurrence	<input type="checkbox"/>

Checklist for Report Completeness

Solid Waste Registration
ID No. 63003

Report Date:
January 2008

Report Contents

No <input type="checkbox"/>	Is there data or boring/monitor well information not previously submitted?	X Yes	Appendix 4* Data Tables, Boring Logs, and Well Completions	X
No <input type="checkbox"/>	Did sampling procedures differ from those described in the RAP?	X Yes	Appendix 5* Sampling Procedures	X
No <input type="checkbox"/>	Has any sampling been conducted for which the analytical results were not previously submitted?	X Yes	Appendix 6* Laboratory Data Packages	X
No X	Were statistics or geostatistics used in the response action?	<input type="checkbox"/> Yes	Appendix 7* Statistical Methodology	<input type="checkbox"/>
No <input type="checkbox"/>	Were any wastes generated that were not reported through STEERS?	X Yes	Appendix 8* Waste Disposition	X

Confirmation of Response Action Objectives	RACR Worksheet 1.0	Page 1 of 3
	Solid Waste Registration ID No. 63003	Report Date: January 2008

Use this worksheet to describe the attainment of the response action objectives in each media.

Response Action Objectives

What was the selected remedy standard for this affected property? X A B

List the environmental media to which this applies Soil
Repeat this section for each medium that had a different response action objective.

Provide a detailed description of the response action. Describe the removal actions, decontamination actions, treatment system(s), physical or institutional control actions, and any actions for ecological considerations (ecological services analysis and compensatory restoration plans) that were conducted in each media and indicate if there were any differences between the actions taken and the actions proposed in the SIN or RAP.

Shaw Environmental, Inc. (Shaw) was contracted by the U.S. Army Corps of Engineers (USACE), Tulsa District, to perform a response action at the Open Burn/Open Detonation (OB/OD) Area A-1, Castner Range, Fort Bliss, Texas near U.S. Highway 54 for pesticides in soil at hot spot locations.

The OB/OD Area A-1 was used as a detonation area. Field sampling investigation activities were performed in February 2002 at the Area A-1 site to delineate the nature and extent of constituents present in the soils. The sampling results indicated that four sample locations (SS-C7, SS-C9, SS-C15, and SS-C17) exceeded Texas Commission on Environmental Quality (TCEQ) residential Tier 1 protective concentration levels (PCLs) as specified by the Texas Risk Reduction Program (30 Texas Administrative Code [TAC] 350) for two pesticides, and three sample locations (SS-C7, SS-C9, and SS-C15) exceeded industrial Tier 1 PCLs for two pesticides. Alpha-BHC and 4,4'-DDE were detected at concentrations exceeding the PCLs at these locations.

An Affected Property Assessment Report (APAR) was completed and submitted to TCEQ in January 2003. In a letter dated July 8, 2005, TCEQ indicated the investigation has been completed in accordance with 30 Texas Administrative Code (TAC) 350.51. However, additional response action was necessary to address the concentrations exceeding the PCL for pesticides 4,4'-DDE and alpha-BHC in several hot spot soil locations at OB/OD Area A-1. **Attachment 1A** shows the affected property as defined by the APAR.

In February 2006, Shaw performed excavation activities at five locations at Area A-1. Samples were collected from the floor bottom and wall of each excavation. Results from the confirmation sampling indicated that concentrations of aldrin and/or alpha-BHC remained above the Tier 1 residential PCL in eight sample locations. Aldrin was identified as a new constituent of concern (COC) in response to the February 2006 sampling. Additional sampling in these locations was required to further delineate the remaining pesticide soil. Approximately 40 cubic yards of soil were removed, properly manifested, transported, and disposed as non-hazardous waste.

Shaw mobilized to the site on April 10, 2006, to collect additional samples from soils adjacent to locations where pesticide concentrations exceeded the applicable PCL in the confirmation sampling. Results from the delineation sampling indicated that concentrations of aldrin, alpha-BHC and/or 4,4-DDE remained above the Tier 1 residential PCL in 12 sample locations as shown in **Attachment 1B**.

A SIN (Self Implementation Notice) was sent to the TCEQ on October 4, 2006, for advance notice of upcoming field activities. No field activities occurred in late 2006 or early 2007 due to unusually heavy rains in the area that limited site access.

Field activities began during the week of July 9, 2007, and ended July 19, 2007. Field activities commenced with excavation of the four pesticide hot spot soil locations. The depth of each excavation was approximately 1 - 2 feet in depth, including the walls. Samples were collected from the bottom and designated walls. Shaw collected a total of eight confirmation soil samples from four pesticide hot spot soil excavation locations. The

Confirmation of Response Action Objectives

RACR Worksheet 1.0

Page 2 of 3

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samples were analyzed for aldrin, alpha-BHC, and 4,4-DDE. One quality control sample was collected. The samples were collected from within the affected property area (see **Attachment 1C** and Table 1, **Appendix 4**).

Sample depths for the confirmation soil samples were 0-6 inches into the floor and designated walls. Samples were collected using disposable hand trowels. Sampling locations were marked with either a wooden stake or pin flag, photographed, and logged into a field notebook.

Soil samples were placed in appropriate sample jars. Each container was labeled with the project name, location, sample identification number, sample depth, date and time sampled, and analytical parameters. A chain-of-custody form accompanied the samples.

Approximately 40 cubic yards of soil were removed from the four hot spot locations, and properly manifested, transported and disposed as non-hazardous waste. Due to the extensive and uncharacteristic rains in the area, a unexploded ordnance (UXO) technician was utilized for this project to aid in avoidance of any potential UXO.

Describe how the response action achieved the property-specific response objectives for the PCLE zone in each media in the context of the response objectives set forth in §350.32 or §350.33, as applicable. Explain how the response action was appropriate based on the hydrogeologic and COC characteristics. Describe any unprotective conditions that continued or resulted from the remedial actions and the actions taken to mitigate unprotective conditions.

All soils containing pesticide concentrations above the critical PCL were removed. No unprotected conditions remain. **Attachment 1C** shows the COC concentration in the confirmation samples. The analytical results shown on Table 1, **Appendix 4**, as well.

If different from the information provided in the RAP, explain how the COCs were handled, treated, disposed, or transferred to another media and document that the response action did not result in any additional exposure conditions due to response action activities.

All soils were disposed at the Camino Real landfill in Sunland Park, New Mexico. See **Appendix 8** for disposal documentation.

Explain how the response action achieved the objectives within the reasonable time frame.

NA

Were physical controls used as part of the response action? Yes No

If yes, describe the type and purpose of the physical control and discuss how the physical control has proved effective.

Soil Response Action Objectives

When using removal and/or decontamination with controls or controls only, demonstrate that the physical control or combination of measures reliably contained COCs within and/or derived from the surface soil and subsurface soil PCLE zone materials over time.

NA – no controls used.

Confirmation of Response Action Objectives	RACR Worksheet 1.0	Page 3 of 3
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Explain how the removal or decontamination action reduced the concentration of COCs to the critical surface soil and subsurface soil PCL throughout the soil PCLE zone and prevented COC concentrations above the critical soil PCLs from migrating beyond the original boundary of the soil PCLE zone.

The COCs were solely present in surface soils which were removed by excavation.

Groundwater Response Action Objectives

Name of groundwater-bearing unit to which this information applies Hueco Bolson
 Repeat this section for each groundwater-bearing unit for which a different response action was conducted.
 Groundwater classification NA* 1 2 3

*Note: Please see Attachment to APAR Worksheet 5.0 Assessment of Vertical Extent of COC Concentrations in Surface and Subsurface Soil, *Final APAR OB/OD Area A-1, Castner Range, Fort Bliss, Texas* (Shaw, 2003) for discussion on ground water classification.

Was a modified groundwater response action used for any part of the groundwater PCLE zone (§350.33(f)(2), (3), or (4))? ___ Yes X No
 If yes, complete the appropriate portions of this report.

Explain how the removal or decontamination actions reduced the concentration of COCs to the critical groundwater PCL throughout the groundwater PCLE zone and prevented COC concentrations above the critical groundwater PCL from migrating beyond the original boundary of the groundwater PCLE zone. If COC concentrations above the critical groundwater PCL ever migrated beyond the original boundary of the groundwater PCLE zone, explain the actions taken to address the increase in the PCLE zone.

Vertical soil delineation (see note above) indicated that there was no vertical migration of COCs. Therefore, there is no groundwater PCLE zone at the site. The soil to groundwater pathway is incomplete.

Explain how the response action prevented COCs from migrating to air at concentrations above the PCLs for air if the groundwater-to-air PCLs (^{Air}GW_{int-v}) were exceeded.

No PCLs were exceeded for groundwater-to-air.

Explain how the response action prevented COCs from migrating to surface water at concentrations above the PCLs for groundwater discharges to surface water if surface water was a factor.

No surface water is present at the site.

Explain how the response action prevented human and ecological receptor exposure to the groundwater PCLE zone.

There is no groundwater PCLE zone at the site.

Waste Management

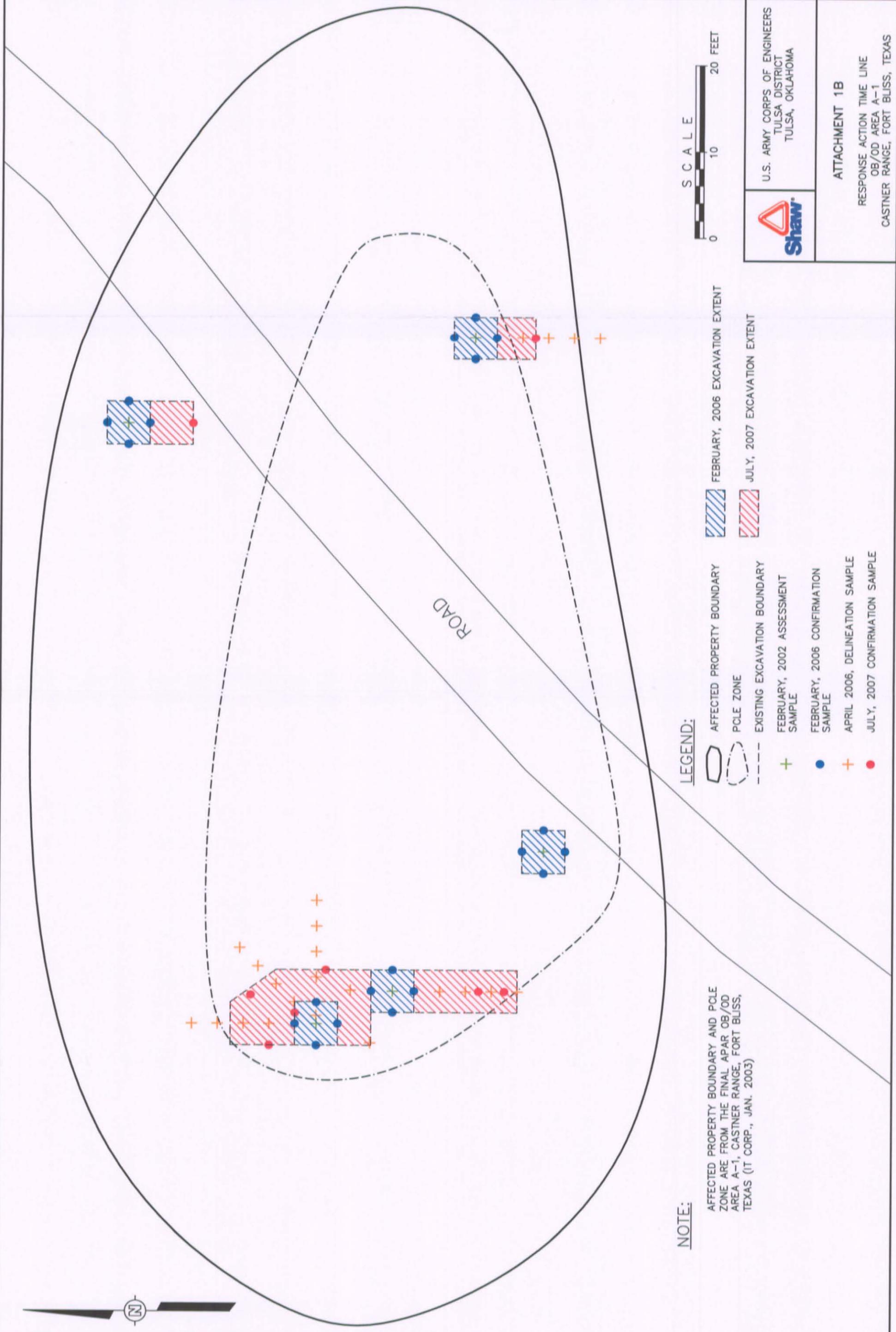
Describe the volume and final disposition or reuse location of waste or environmental media that was removed from the affected property during the response action, if not previously reported under STEERS. Provide copies of all manifests, other documentation of disposition, and landowner consent for reuse of soil in Appendix 8.

Approximately 40 cubic yards of soil was removed from the affected property. Final disposition of the waste was at the Camino Real landfill in Sunland Park, New Mexico. See **Appendix 8** for waste documentation.



IMAGE	---
X-REF	---
OFFICE	HOUSTON, TX
DRAWN BY	L. JONES 8/13/07
CHECKED BY	N. OLSON 10/29/07
APPROVED BY	K. HADASH 10/29/07
DRAWING NUMBER	783981-B53

PLOT DATE: 3/24/06
 FORMAT REVISION 3/25/99



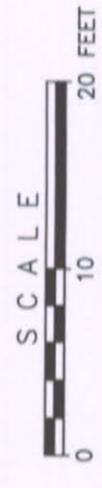
NOTE:

AFFECTED PROPERTY BOUNDARY AND PCLE ZONE ARE FROM THE FINAL APAR OB/OD AREA A-1, CASTNER RANGE, FORT BLISS, TEXAS (IT CORP., JAN. 2003)

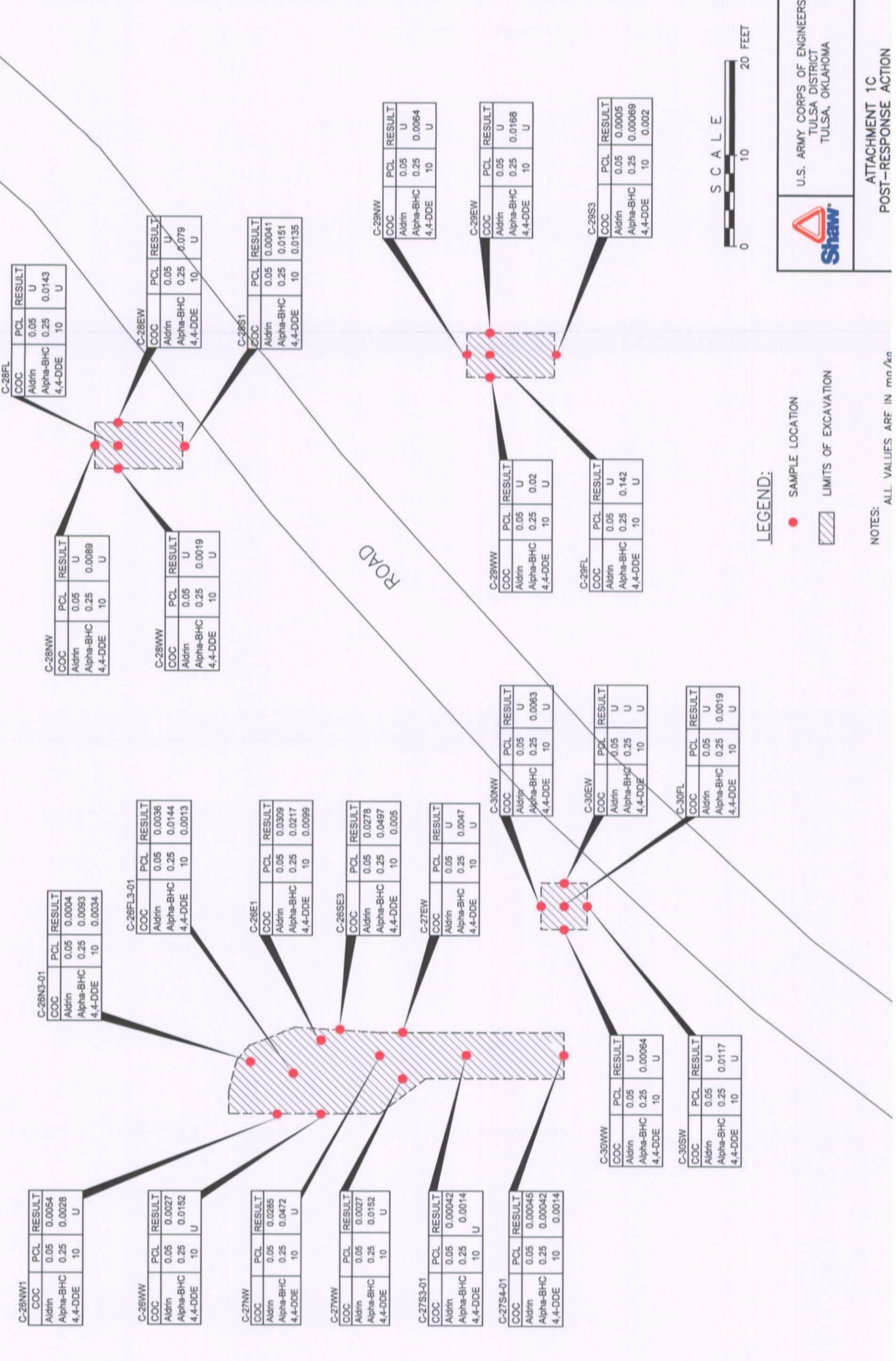
LEGEND:

- AFFECTED PROPERTY BOUNDARY
- PCLE ZONE
- EXISTING EXCAVATION BOUNDARY
- FEBRUARY, 2002 ASSESSMENT SAMPLE
- FEBRUARY, 2006 CONFIRMATION SAMPLE
- APRIL 2006, DELINEATION SAMPLE
- JULY, 2007 CONFIRMATION SAMPLE

- FEBRUARY, 2006 EXCAVATION EXTENT
- JULY, 2007 EXCAVATION EXTENT

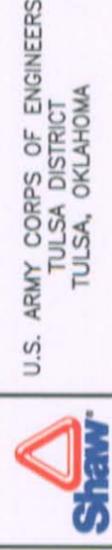


	U.S. ARMY CORPS OF ENGINEERS TULSA DISTRICT TULSA, OKLAHOMA
	ATTACHMENT 1B RESPONSE ACTION TIME LINE OB/OD AREA A-1 CASTNER RANGE, FORT BLISS, TEXAS



LEGEND:

- SAMPLE LOCATION
- ▨ LIMITS OF EXCAVATION



NOTES:
 ALL VALUES ARE IN mg/kg

COC	PCL	RESULT
Aldrin	0.05	0.0054
Alpha-BHC	0.25	0.0028
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	0.0027
Alpha-BHC	0.25	0.0152
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	0.0285
Alpha-BHC	0.25	0.0472
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	0.0027
Alpha-BHC	0.25	0.0152
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	0.00042
Alpha-BHC	0.25	0.0014
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	0.00045
Alpha-BHC	0.25	0.00042
4,4-DDE	10	0.0014

COC	PCL	RESULT
Aldrin	0.05	0.0004
Alpha-BHC	0.25	0.0093
4,4-DDE	10	0.0034

COC	PCL	RESULT
Aldrin	0.05	0.0036
Alpha-BHC	0.25	0.0144
4,4-DDE	10	0.0013

COC	PCL	RESULT
Aldrin	0.05	0.0309
Alpha-BHC	0.25	0.0217
4,4-DDE	10	0.0099

COC	PCL	RESULT
Aldrin	0.05	0.0278
Alpha-BHC	0.25	0.0497
4,4-DDE	10	0.005

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	0.0047
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	0.0063
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	U
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	0.0019
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	0.0089
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	0.0019
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	0.00041
Alpha-BHC	0.25	0.0151
4,4-DDE	10	0.0135

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	0.0064
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	U
Alpha-BHC	0.25	0.0168
4,4-DDE	10	U

COC	PCL	RESULT
Aldrin	0.05	0.0005
Alpha-BHC	0.25	0.00069
4,4-DDE	10	0.002

Appendices

Appendix 1 Reference

Appendix 4 COC Data Table

Appendix 5 Sampling Procedures

Appendix 6 Laboratory Data Packages (on compact disk)

Appendix 8 Waste Disposition

Appendix 1

Reference

Shaw Environmental and Infrastructure, Inc. (Shaw) 2003, Final Affected Property Assessment Report, Open Burn/Open Detonation Area A-1, Castner Range, Fort Bliss, Texas, January.

Appendix 4
COC Data Table

**Appendix 4, Table 1
Soil Sample Analytical Data**

COC DATA TABLE

Sample Location	FTBL-073-SS-C-26FL3	FTBL-073-SS-C-26N3	FTBL-073-SS-C-27S3	FTBL-073-SS-C-27S4	FTBL-073-SS-C-28S1	FTBL-073-SS-C-29S3	FTBL-073-SS-C-26SE3						
Sample Identification	FTBL-073-SS-C-26FL3-01	FTBL-073-SS-C-26N3-01	FTBL-073-SS-C-27S3-01	FTBL-073-SS-C-27S4-01	FTBL-073-SS-C-28S1	FTBL-073-SS-C-29S3	FTBL-073-SS-C-26SE3						
Sample Date	7/16/2007	7/16/2007	7/16/2007	7/16/2007	7/16/2007	7/16/2007	7/13/2007						
Parameter	Units	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL
Aldrin	ug/kg	3.6	U	1.7	0.40	0.43	U	1.8	0.42	0.45	U	1.7	0.41
alpha-BHC	ug/kg	14.4	U	1.7	0.37	0.39	U	1.8	0.39	0.41	J	1.7	0.38
4,4'-DDE	ug/kg	1.3	U	3.3	1.3	1.4	U	3.5	1.3	1.4	U	3.7	1.4
	Residential Assessment Level												
		50											
		250											
		10,000											

Sample Location	FTBL-073SS-C-26NW1	FTBL-073-SS-C-26E1	FTBL-073-SS-C-30-EW	FTBL-073-SS-C-30-FL	FTBL-073-SS-C-30-NW	FTBL-073-SS-C-30-SW	FTBL-073-SS-C-30-WW						
Sample Identification	FTBL073SS-C-26NW1	FTB073-SB-C26E1-01	FTB073-SS-C30-EW SOIL, C30 E WALL	FTB073-SS-C30-FL SOIL, C30 FLOOR	FTB073-SS-C30-NW SOIL, C30 N WALL	FTB073-SS-C30-SW SOIL, C30 S WALL	FTB073-SS-C30-WW SOIL, C30 W WALL						
Sample Date	7/13/2007	4/11/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006						
Parameter	Units	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL
Aldrin	ug/kg	5.4	U	1.7	0.41	0.4	U	1.7	0.40	0.41	U	1.7	0.40
alpha-BHC	ug/kg	2.8	U	1.7	0.37	0.37	U	1.7	0.37	0.37	U	1.7	0.37
4,4'-DDE	ug/kg	1.3	U	3.4	1.3	1.3	U	3.4	1.3	1.3	U	3.3	1.3
	Residential Assessment Level												
		50											
		250											
		10,000											

Notes are presented on the last page of table.

Appendix 4, Table 1
Soil Sample Analytical Data

COC DATA TABLE (Continued)

Sample Location		FTB-073-SS-C-29-EW			FTB-073-SS-C-29-FL			FTB-073-SS-C-29-NW			FTB-073-SS-C-29-WW			FTB-073-SS-C-28-EW			FTB-073-SS-C-28-FL			
Sample Identification		FTB073-SS-C29-EW SOIL, C29 E WALL			FTB073-SS-C29-FL SOIL, C29 FLOOR			FTB073-SS-C29-NW SOIL, C29 N WALL			FTB073-SS-C29-WW SOIL, C29 W WALL			FTB073-SS-C28-EW SOIL, C28 E WALL			FTB073-SS-C28-FL SOIL, C28 FLOOR			
Sample Date		2/15/2006			2/15/2006			2/15/2006			2/15/2006			2/15/2006			2/15/2006			
Parameter	Units	Residential Assessment Level			Result	Qual	MQL	SQL	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL
		ug/kg	ug/kg	ug/kg																
Aldrin	ug/kg	50	0.41	U	1.7	0.41	0.41	0.41	0.41	U	1.7	0.41	0.41	U	1.7	0.41	0.42	U	1.7	0.42
alpha-BHC	ug/kg	250	16.8	U	1.7	0.38	3.7	17	6.4	U	1.7	0.38	20.0	1.7	8.7	1.9	79.0	U	1.7	0.38
4,4'-DDE	ug/kg	10,000	1.3	U	3.4	1.3	1.3	3.4	1.3	U	3.4	1.3	1.3	U	3.4	1.3	1.3	U	3.5	1.3

Sample Location		FTB-073-SS-C-28-NW			FTB-073-SS-C-27-EW			FTB-073-SS-C-27-NW			FTB-073-SS-C-27-WW			FTB-073-SS-C-26-WW						
Sample Identification		FTB073-SS-C28-NW SOIL, C28 N WALL			FTB073-SS-C27-EW SOIL, C27 E WALL			FTB073-SS-C27-NW SOIL, C27 N WALL			FTB073-SS-C27-WW SOIL, C27 W WALL			FTB073-SS-C26-WW SOIL, C26 W WALL						
Sample Date		2/15/2006			2/14/2006			2/14/2006			2/14/2006			2/14/2006						
Parameter	Units	Residential Assessment Level			Result	Qual	MQL	SQL	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL	Result	Qual	MQL	SQL
		ug/kg	ug/kg	ug/kg																
Aldrin	ug/kg	50	0.42	U	1.8	0.42	0.43	1.8	0.41	U	1.7	0.41	28.5	17	4.1	4.1	2.7	U	1.7	0.41
alpha-BHC	ug/kg	250	8.9	U	1.8	0.39	1.9	1.8	4.7	U	1.7	0.38	47.2	17	3.8	3.8	15.2	U	1.7	0.38
4,4'-DDE	ug/kg	10,000	1.3	U	3.5	1.3	1.4	3.6	1.3	U	3.4	1.3	1.3	U	3.4	1.3	1.3	U	3.4	1.3

Notes and Abbreviations

- MQL method quantitation limit
- QUAL qualifier
- SQL sample quantitation limit
- U not detected above the SQL
- ug/kg micrograms per kilogram

Appendix 5
Sampling Procedures

Appendix 5

Sampling Procedures

Sampling activities were performed in accordance with the procedures documented in the *Final Sampling and Analysis Plan, Open Burn/Open Detonation Area A-1 (FTBL-073), Castner Range, Fort Bliss, Texas* (IT Corp./OHM Remediation Corp., 2002).

Field activities commenced with excavation. The depth of each excavation was approximately 1-2 feet for each of the four pesticide hot spot soil locations.

Samples were collected from the bottom and designated wall of each excavation. Shaw collected a total of eight confirmation samples plus one quality control sample. Sample depths for the confirmation soil samples were 0-6 inches into the floor and designated walls.

Samples were collected using disposable hand trowels. The sampling locations were marked with a pin flag, photographed and logged into a filed notebook.

Soil samples were placed in appropriate sample jars. Each container was labeled with the project name, location, sample identification, sample depth, date and time sampled, and analytical parameters, and placed in a cooler packed with bagged ice. A chain-of-custody form accompanied the samples.

Appendix 6

Laboratory Data Packages (on compact disk)

Appendix 8
Waste Disposition



Camino Real
ENVIRONMENTAL CENTER, INC.

SPECIAL WASTE PERMIT APPLICATION

Approval No. _____
Facility _____

Generator name: FORET MISS
address: DIRECTORATE OF ENVIRONMENT, BUILDING 622, TAYLOR ROAD, FT. RUSTIN, TEXAS 79714
Waste description: SOIL CONTAINING NON-HEAVY METAL PESTICIDES

Quantity: 40-50 YARDS > Frequency of disposal: One-time Monthly Other _____

Process generating waste: EXCAVATION OF FORMER DISPOSAL AREA

Point of waste generation (include zip code): WEST OF INTERSECTION OF HIGHWAY WITH RING DR AND HWY 54 SOUTH, EL PASO, TEXAS

Generator Representative/Contact: [Signature] Company Name: [Signature]

Phone: 1 / _____ Fax: 1 / _____

Transporter: LITCHER CO. INC Phone: 505/844-0144 Fax: 505/844-0108

PHYSICAL CHARACTERISTICS AND DOCUMENTATION

Physical state: Solid Semi-solid Dusty Sludge Color: _____

Analytical results: TPH (PCS) Volatiles TOX TCLP: _____
 BTEX Pesticides PCB Other: _____

Sample source: Pile In-ground Pit bottom Other: _____

Additional information: MSDS Process knowledge Other: ANALYTICAL DATA

NON-HAZARDOUS DETERMINATION

Under 40 CFR Part 261, is this a Listed or Characteristic waste? Yes No

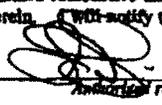
Is waste classified as a state-only or provincial hazardous waste? Yes No

Is waste covered or restricted from landfilling by any permit? Yes No

Basis for non-hazardous determination: ANALYTICAL DATA

WASTE CERTIFICATION STATEMENT

I hereby certify that all information contained herein is true and correct, and the material described is properly identified, classified, packaged, labeled, and prepared as indicated. I certify this waste is not hazardous as defined by the U.S. EPA or the state or province of origin. I certify this waste does not contain any regulated radioactive materials. I certify that all samples used for this analysis are representative of the materials described herein. I will notify the company if there is a change in the composition of, or process generating this waste stream.

Name (print): ISMAEL DELgado  Authorized representative's signature

Title / Company: ENV. Engineer  Date: 8/21/07

P. O. Box 580 • Sizerland Park, New Mexico 88063
Tel: 505 589-9440 • Fax: 589-2427 • www.cred.com

Printed on recycled paper

CAMINO REAL LANDFILL

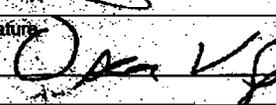
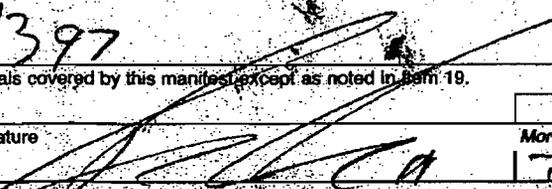
P.O. Box 580

Sunland Park, N.M. 88063

(505) 589-9440

№ 48197

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. TXA213720101	MANIFEST DOCUMENT NO. FB 402-B	2. Page 1 1 of 1
3. Generator's Name and Mailing Address FORT BLISS DIRECTORATE OF ENVIRONMENT BLDG. # 622 TAYLOR ROAD FORT BLISS, TEXAS 79916				
4. Generator's Phone ()		6. Address 6133 EDITH BLVD N.E. ALBUQUERQUE N.M. 87107		
5. Transporter 1 Company Name RINCHEN CO. INC.		7. Transporter 2 Company Name		
9. Designated Facility Name and Site Address CAMINO REAL LANDFILL 1000 CAMINO REAL BLVD, SUNLAND PARK N. MEX 88063		10. US EPA ID Number N/A		
11A HM	11. US DOT Description (Including Proper Shipping Name, Non Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity
	a. SOIL CONTAMINATED W/ PESTICIDES NON-RCRA NON DOT REGULATED		001 CM	20 Y
	b.			
	c.			
	d.			
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
Printed/Typed Name ISMAEL DELCADO		Signature 		Month Day Year 07 12 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name OSCAR LARREA		Signature 		Date 107 17 07
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Date
19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in item 19.				
Printed/Typed Name Francisco		Signature 		Date 7 17 07

GENERATOR

TRANSPORTER

FACILITY

CAMINO REAL LANDFILL

P.O. Box 580

Sunland Park, N.M. 88063

(505) 589-9440

No 48199

Please print or type. (Form designed for use on 6 1/2" (12-pitch) typewriter.)

NON HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. TX4213720101	MANIFEST DOCUMENT NO. FB 402-A	2. Page 1 1 of 1
3. Generator's Name and Mailing Address PORT BLISS DIRECTORATE OF ENVIRONMENT BLDG. # 622 TAYLOR ROAD PORT BLISS, TEXAS 79916				
4. Generator's Phone		6. Address 6133 EDITH BLVD N.E. ALBUQUERQUE, N. M. 87107		
5. Transporter 1 Company Name KINCHEN CO., INC.		8. Address		
7. Transporter 2 Company Name		10. US EPA ID Number N/A		
9. Designated Facility Name and Site Address CAMINO REAL LANDFILL 1000 CAMINO REAL BLVD. SUNLAND PARK N. MEX 88063				
11A HM	11. US DOT Description (Including Proper Shipping Name, Non Hazard Class, and ID Number)	12. Containers No. Type	13. Total Quantity	14. Liters Wt/Vol
	a. 1700L CONTAMINATED W/ PESTICIDES NON-RCRA AHA DOT REGULATED Richard Peterson			16
	b.			
	c.			
	d.			
15. Special Handling Instructions and Additional Information				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
Printed/Typed Name ISMAEL DELGADO		Signature 		Month Day Year 07 12 07
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name OSCAR VARGAS		Signature 		Date 07/16/07
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space				
003987				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name Fernando		Signature 		Date 17/10/07

GENERATOR

TRANSPORTER

FACILITY