

**1R - 187**

---

# **REPORTS**

**DATE:**

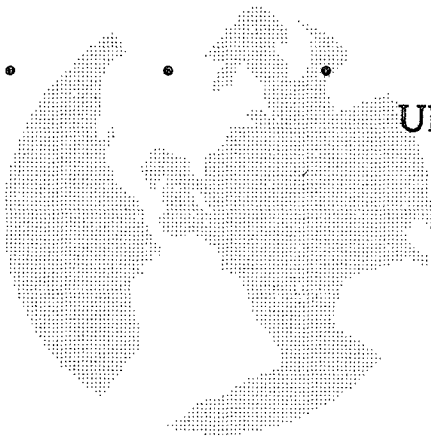
**7/17/1998**

---

3311 North Grimes  
Hobbs, New Mexico 88240  
Telephone {505} 392-0659  
FAX {505} 392-4547  
e-Mail: callsafe@gte.net

# Callaway Safety Equipment Co., Inc.

## Final Remedial Action Report - ADDENDUM



UMC/Ocean Energy: Carlisle State Com #1  
"Halliburton North Pit"  
N.M.P.M. S15 T16S R35E  
990' FNL & 2310' FWL  
Lea County New Mexico

Submitted July 17, 1998

ADDENDUM submitted October 22, 1998

*Summary of the environmental remedial  
actions associated with this unlined pit*

**Discussion:**

The information provided in this Addendum to the Final Remedial Action Report for the Halliburton North Pit, UMC/Ocean Energy, Carlisle State Com #1 dated July 17, 1998 details the environmental sampling results of the material utilized to backfill the pit and photographic documentation of completed surface contouring.

**Analytical Results:**

Personnel from Whole Earth Environmental, Inc. collected soil samples of the endemic backfill material on August 27, 1998, placed the sample in ice, and delivered to Callaway Safety Equipment Co., Inc.. The samples were delivered to Cardinal Laboratories, Inc. (Hobbs, New Mexico) for analyses that afternoon with the samples being analyzed on August 28, 1998. The original Chain-of-Custody/Analytical Request Form and Analytical Results Report are attached. The analytical results are summarized in the matrix below.

Halliburton North Backfill Material Analytical Results						
Sample ID#	TPH	Cl <sup>-</sup>	Benzene	Toluene	Ethyl Benzene	Total Xylenes
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
S98827HNP	179	2060	<0.002	<0.002	<0.002	<0.006

**Photographic Documentation:**

Below is a photograph of the backfilled and contoured pit.



Halliburton North & South Pit after Final Backfilling and Contouring  
August 27, 1998

**ARDINAL LABORATORIES, INC.**

22111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 7 of 7[illegible]

**+ Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.**



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

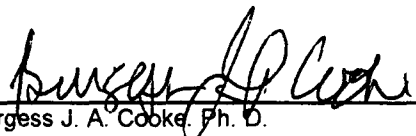
ANALYTICAL RESULTS FOR  
CALLAWAY SAFETY EQUIPMENT CO, INC.  
ATTN: PAT MCCASLAND  
3311 N. GRIMES  
HOBBS, NM 88240  
FAX TO: (505) 392-4547

Receiving Date: 08/28/98  
Reporting Date: 09/01/98  
Project Number: CARLISLE #1  
Project Name: CARLISLE ST COM #1  
Project Location: 4 MI WEST OF LOVINGTON, NM

Sampling Date: 08/27/98  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		08/28/98	08/31/98	08/28/98	08/28/98	08/28/98	08/28/98
H3824-1	S98827HNP	179	2060	<0.002	<0.002	<0.002	<0.006
H3824-2	S98827HSP	96.4	1694	<0.002	<0.002	<0.002	<0.006
H3824-3	S98827EFP	115	196	<0.002	<0.002	<0.002	<0.006
Quality Control		2810	1209	0.105	0.100	0.101	0.304
True Value QC		3000	1319	0.100	0.100	0.100	0.300
% Recovery		93.7	91.7	105	100	101	103
Relative Percent Difference		12.8	4.4	1.1	1.7	3.1	4.0

METHODS: TRPHC-SW-846 8015 M; CI-EPA 600/4-79-020 325.3 BTEX-EPA SW-846-8260

  
Burgess J. A. Cooke, Ph. D.

9/1/98  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.