

1R - 187

REPORTS

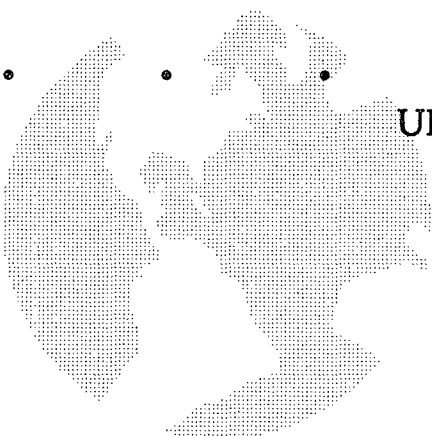
DATE:

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
"East Flare 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*

OCTOBER 22, 1998

Discussion:

The information provided in this Addendum to the Final Remedial Action Report for the East Flare 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.

East Flare Pit Backfill Material Analytical Results						
Sample ID#	TPH	Cl ⁻	Benzene	Toluene	Ethyl Benzene	Total Xylenes
	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
S98827EFP	115	196	<0.002	<0.002	<0.002	<0.006

Photographic Documentation:

Below is a photograph of the backfilled and contoured pit.



East Flare Pit after Final Backfilling and Contouring
August 27, 1998



ARDINAL LABORATORIES

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

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

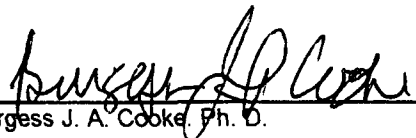
ANALYTICAL RESULTS FOR
CALLAWAY SAFETY EQUIPMENT CO, INC.
ATTN: PAT MCCASLAND
3311 N. GRIMES
HOBBS, NM 88240
FAX TO: (505) 392-4547

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.

ARDINAL LABORATORIES, INC.

Page 7 of 7

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