



November 7, 1988

Harding Lawson Associates  
1355 Willow Way, Suite 109  
Concord, CA 94520

Attention: Mr. Randy Stone

Subject: Report of Data - Case Number 2562

Dear Mr. Stone:

The technical staff at CHEMWEST is pleased to provide our report for the analysis you requested: BTEX - EPA Method 602.

One water sample for Project Texaco Assessment-Station #8, Project Number 02251,081.03 was received October 31, 1988 in good condition. Results of the analysis, along with the analytical methodology and appropriate reporting limits, are presented on the following pages.

Thank you for choosing CHEMWEST Laboratories. Should you have questions concerning this data report or the analytical methods employed, please do not hesitate to contact Toni Weeks, our Technical Service Representative, or your project manager. We hope that you will consider CHEMWEST Laboratories for your future analytical support and service requirements.

Sincerely,

A handwritten signature in cursive script that reads "Jill B. Henes".

Jill B. Henes, Ph.D.  
Vice President of Technical Services

and

A handwritten signature in cursive script that reads "Kirk Pocan".

Kirk Pocan  
Project Manager

KP:bw

cc: Joel Bird, President  
File

## ANALYTICAL METHODOLOGY

BTEX (Benzene, Toluene, Ethyl Benzene, and Xylenes) by Purge & Trap and GC-PID

WATER - Method 602 or 8020

A 5 ml sample volume, or 5 ml of a suitable dilution, is purged on a suitable purge and trap system with helium. The purged sample is analyzed on a Gas Chromatograph equipped with a Photoionization Detector (PID). A packed column is used to separate the compounds.

SOIL - Method 8020

A 10 gram, or other appropriate aliquot of soil, is weighed into a clean VOA vial. Soils received in brass core tubes are sampled by discarding 2-5 centimeters of soil from each end of the tubes (this is done to reduce the possibility of analyzing a portion of soil that has been exposed to sampling technique contamination). Equal aliquots of soil are then removed from each end of the tube and combined in the VOA vial. Soil in jars or bags is aliquoted using a similar technique, which discards exposed sample surfaces. A 10 ml, or other appropriate volume of methanol, is added to the soil and the soil is shaken with the solvent. 100 ul of the extract, or a reduced aliquot or volume of a suitable dilution, is injected into 5 ml of laboratory blank water and analyzed by the same technique used for water samples.

CHEMWEST ANALYTICAL LABORATORIES  
BENZENE, TOLUENE, ETHYL BENZENE, XYLENES

Client I.D.: MW-8A-1&2  
Dates Analyzed: 11/2/88

CHEMWEST I.D.: 2562  
Matrix : Water

Compound	Amount Detected (ug/L)	RL (ug/L)
Benzene	BRL	0.5
Toluene	BRL	1
Ethyl Benzene	BRL	2
Total-Xylenes (1)	BRL	1

Surrogate	% Recovery	Acceptance Window
ortho-Chlorotoluene	97%	50-150%

BRL: Below Reporting Limit.  
RL: Reporting Limit.

(1): Total of P-, M-, and O- Xylenes.

Approved by:   KP  

REV2.9.88

CHEM WEST ANALYTICAL LABORATORY, INC.

600 West North Market Blvd.

Sacramento, California 95834

(916) 923-0840 FAX (916) 923-1938

# CLIENT

Order No. 2562  
 Date Rec'd. 10/31/88 @ 11:00  
 Compl. Date \_\_\_\_\_  
 Section H. Doan

CLIENT: Handing Down Assoc.  
1355 Willow Way  
1355 Willow Way Suite 109  
Concord, CA 94528

Project Name: Toxco Assessment Oct. 88  
 Project No. 02251, 081.03  
 P.O. NO. \_\_\_\_\_  
 Contact \_\_\_\_\_  
 Phone (415) 287-9060

ANALYSIS: One water sample rec'd under chain of  
custody in 40ml vial (2) to be analyzed for  
BTEX.

\*Note: Seven Day Turnaround !!!

Sample ID	Date	Time	Analysis	Matrix	Container
2562	10/28	1510	BTEX	water	2-40ml vials

GC  
 M.T. MICHELLE TOULVER

ChemWest Courier



**Harding Lawson Associates**  
 1355 Willow Way, Suite 109  
 Concord, California 94520  
 415/687-9660  
 Telecopy: 415/687-9673

# CHAIN OF CUSTODY FORM

Lab: Chem West

Job Number: 02251, 081.03

Samplers: David R. Hose  
Glenn S. Young

Name/Location: TEXAS ASSESSMENT - STATION #8

Project Manager: A. Karoff

Recorder: David R. Hose  
 (Signature Required)

ANALYSIS REQUESTED										
EPA 601/8010	EPA 602/8020	EPA 624/8240	EPA 625/8270	Priority Pestic. Metals	Benzene/Toluene/Xylene & E	Total Petrol. Hydrocarb.				
					X					

SOURCE CODE	MATRIX				#CONTAINERS & PRESERV.				SAMPLE NUMBER OR LAB NUMBER			DATE				
	Water	Sediment	Soil	Oil	Unpres.	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	VOA(2)	Yr	Wk	Seq	Yr	Mo	Dy	Time	
	23	X						X	M	W	8	A	8	10	28	15

STATION DESCRIPTION/NOTES

Note that containers read: MW-8A-1 & MW-8A-2

LAB NUMBER			DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Yr	Wk	Seq				
						SAMPLES REC'D IN GOOD CONDITION M.T.

CHAIN OF CUSTODY RECORD		
RELINQUISHED BY: (Signature) <u>David R. Hose</u>	RECEIVED BY: (Signature) <u>Thomas A. White</u>	DATE/TIME 10/31/13 1315
RELINQUISHED BY: (Signature) <u>Thomas A. White</u>	RECEIVED BY: (Signature)	DATE/TIME 10/31/13 1630
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature) <u>Michelle Allen</u>
METHOD OF SHIPMENT <u>Chemwest Courier</u>		DATE/TIME 10/31/1020