



# LABORATORIES, INC.

J. J. EGLIN, REG. CHEM. ENGR.

4100 ATLAS CT., BAKERSFIELD, CALIFORNIA 93308 PHONE (805) 327-4911 FAX (805) 327-1918

TEXACO PRODUCING  
P. O. BOX 5197-X  
BAKERSFIELD, CA 93388  
Attn.: FRED HAGIST 399-2961

Date Reported: 02/28/91  
Date Received: 02/06/91  
Laboratory No.: 1044-1

Sample Description: DISCHARGE TO CARRIER CANAL, 02-06-91 @ 10:00AM, SAMPLED BY DAVID RITTENHOUSE of BC LABORATORIES

## WATER ANALYSIS

Constituents	Results	D.L.R.	Units	Method
Calcium	24.	0.1	mg/L	SW-6010
Magnesium	4.0	0.01	mg/L	SW-6010
Sodium	160.	0.1	mg/L	SW-7770
Potassium	8.2	0.1	mg/L	SW-7610
Total Cations	8.70	0.01	epm	Calculated
Hydroxide	None Detected	0.8	mg/L	SM-403
Carbonate	None Detected	2.6	mg/L	SM-403
Bicarbonate	236.	2.6	mg/L	SM-403
Chloride	129.	1.8	mg/L	SW-9251
Sulfate	67.	5.0	mg/L	SW-9036
Nitrate as NO3	None Detected	0.4	mg/L	EPA-353.2
Nitrate as N	None Detected	0.1	mg/L	EPA-353.2
Fluoride	0.66	0.05	mg/L	EPA-340.3
Bromide	0.61	0.05	mg/L	EPA-300.0
pH	7.7	0.1	pH Units	SW-9040
Electrical Conductivity @ 25 C	930.	1.	umhos/cm	SW-9050
Total Suspended Solids using 1.20 micron paper	3.5	0.5	mg/kg	EPA-160.2
Color	20.	1.0	Color Units	EPA-110.2
Odor	50.	NA	Odor Units	EPA-140.1
MBAS	0.20	0.02	mg/L	EPA-425.1
Total Dissolved Solids by summation	629.	10.	mg/l	Calculated
Hardness as CaCO3	76.5	0.3	mg/L	Calculated
SAR	7.96	0.01	-	Calculated
Adjusted SAR	12.82	0.01	-	Calculated
ESP	9.49	0.01	-	Calculated
pHc	7.79	0.01	-	Calculated
Gypsum Requirement	10.27	0.01	#100% gyp./	Calculated
Boron	1.1	0.1	mg/L	SW-6010
Hexavalent Chromium	None Detected	10.	µg/L	SW-7196
Zinc	None Detected	10.	µg/L	SW-6010
Total Aluminum	None Detected	50.	µg/L	SW-6010
Total Antimony	None Detected	100.	µg/L	SW-6010
Total Arsenic	27.	2.	µg/L	SW-7060
Total Barium	None Detected	100.	µg/L	SW-6010
Total Beryllium	None Detected	10.	µg/L	SW-6010
Total Cadmium	None Detected	5.	µg/L	SW-6010
Total Chromium	None Detected	10.	µg/L	SW-6010
Total Cobalt	None Detected	10.	µg/L	SW-6010
Total Copper	None Detected	10.	µg/L	SW-6010

ENVIRONMENTAL  
CHEMICAL ANALYSIS  
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## WATER ANALYSIS

<u>Constituents</u>	<u>Results</u>	<u>D.L.R.</u>	<u>Units</u>	<u>Method</u>
Total Lead	None Detected	5.	µg/L	SW-7421
Total Manganese	86.	10.	µg/L	SW-6010
Total Mercury	None Detected	0.2	µg/L	EPA-245.2
Total Molybdenum	12.	10.	µg/L	SW-6010
Total Nickel	None Detected	50.	µg/L	SW-6010
Total Selenium	None Detected	2.	µg/L	SW-7740
Total Silver	None Detected	10.	µg/L	SW-6010
Total Tin	None Detected	15.	µg/L	EPA-282.2
Total Thallium	None Detected	100.	µg/L	SW-6010
Total Zinc	22.	10.	µg/L	SW-6010
Total Cyanide	None Detected	0.02	mg/L	EPA-335.3
Ammonia as NH3	1.9	0.02	mg/L	EPA-350.1
Total Sulfide	None Detected	0.1	mg/L	SM-427D
Oil & Grease	None Detected	10.	mg/L	EPA-413.2
Total Petroleum Hydrocarbons	2.	1.0	mg/L	EPA-418.1
Non-Volatile Organic Carbon	25.	1.0	mg/L	SW-9060
Biochemical Oxygen Demand	5.2	0.30	mg O/L	EPA-405.1
Chemical Oxygen Demand	120.	4.0	mg O/L	EPA-410.2

*M. J. Eglin*

- D.L.R. = Detection Limit for Reporting purposes.
- N.D. = None Detected
- SW = "Test Methods For Evaluating Solid Waste", SW 846
- SM = "Standard Methods For the Examination of Water and Wastewater"
- EPA = "Methods For Chemical Analysis of Water and Wastes"
- ASTM = "American Society For Testing and Materials"
- BC = BC Laboratories "In-House" Methodology

BY *J. J. Eglin*  
J. J. EGLIN



## Volatile Organic Analysis (8240)

TEXACO PRODUCING  
P. O. BOX 5197-X  
BAKERSFIELD, CA 93388  
Attn.: FRED HAGIST 399-2961

Date of  
Report: 02/12/91  
Lab #: 1044-1

Sample Description: DISCHARGE TO CARRIER CANAL, 02-06-91 @ 10:00AM, SAMPLED BY DAVID RITTENHOUSE of BC LABORATORIES

Test Method: EPA Method 8240  
As Received Basis

Sample Matrix: Water

Date Sample  
Collected:  
02/06/91

Date Sample  
Received @ Lab:  
02/06/91

Date Analysis  
Completed:  
02/12/91

<u>Constituents</u>	<u>Reporting Units</u>	<u>Analysis Results</u>	<u>Minimum Reporting Level</u>
Benzene	µg/L	None Detected	2.0
Bromodichloromethane	µg/L	None Detected	2.0
Bromoform	µg/L	None Detected	2.0
Bromomethane	µg/L	None Detected	2.0
Carbon tetrachloride	µg/L	None Detected	2.0
Chlorobenzene	µg/L	None Detected	2.0
Chloroethane	µg/L	None Detected	2.0
2-Chloroethylvinyl ether	µg/L	None Detected	2.0
Chloroform	µg/L	None Detected	2.0
Chloromethane	µg/L	None Detected	2.0
Dibromochloromethane	µg/L	None Detected	2.0
1,2-Dichlorobenzene	µg/L	None Detected	2.0
1,3-Dichlorobenzene	µg/L	None Detected	2.0
1,4-Dichlorobenzene	µg/L	None Detected	2.0
1,1-Dichloroethane	µg/L	None Detected	2.0
1,2-Dichloroethane	µg/L	None Detected	2.0
1,1-Dichloroethene	µg/L	None Detected	2.0
trans-1,2-Dichloroethene	µg/L	None Detected	2.0
1,2-Dichloropropane	µg/L	None Detected	2.0
cis-1,3-Dichloropropene	µg/L	None Detected	2.0
trans-1,3-Dichloropropene	µg/L	None Detected	2.0
Ethyl Benzene	µg/L	None Detected	2.0

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## Volatile Organic Analysis (8240)

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P. O. BOX 5197-X  
BAKERSFIELD, CA 93388  
Attn.: FRED HAGIST 399-2961

Date of  
Report: 02/12/91  
Lab #: 1044-1

Sample Description: DISCHARGE TO CARRIER CANAL, 02-06-91 @ 10:00AM, SAMPLED BY DAVID RITTENHOUSE of BC LABORATORIES

<u>Constituents</u>	<u>Reporting Units</u>	<u>Analysis Results</u>	<u>Minimum Reporting Level</u>
Methylene Chloride	µg/L	None Detected	2.0
1,1,2,2-Tetrachloroethane	µg/L	None Detected	2.0
Tetrachloroethene	µg/L	None Detected	2.0
Toluene	µg/L	None Detected	2.0
1,1,1-Trichloroethane	µg/L	None Detected	2.0
1,1,2-Trichloroethane	µg/L	None Detected	2.0
Trichloroethene	µg/L	None Detected	2.0
Trichlorofluoromethane	µg/L	None Detected	2.0
1,1,2-Trichloro- 1,2,2-trifluoroethane	µg/L	None Detected	2.0
Vinyl Chloride	µg/L	None Detected	2.0
m-Xylene	µg/L	None Detected	2.0
o-Xylene	µg/L	None Detected	2.0
p-Xylene	µg/L	None Detected	2.0

Comments:

California D.O.H.S. Cert. #1186

BY J. J. Eglin  
J. J. Eglin

Stuart S. Battam  
Analyst

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## Base Neutral and Acid Extractables Organic Analysis (8270)

TEXACO PRODUCING  
P. O. BOX 5197-X  
BAKERSFIELD, CA 93388  
Attn.: FRED HAGIST 399-2961

Date of  
Report: 02/12/91  
Lab #: 1044-1

Sample Description: DISCHARGE TO CARRIER CANAL, 02-06-91 @ 10:00AM, SAMPLED BY DAVID RITTENHOUSE of BC LABORATORIES

Test Method: EPA Method 8270  
As Received Basis

Sample Matrix: Water

Date Sample  
Collected:  
02/06/91

Date Sample  
Received @ Lab:  
02/06/91

Date Analysis  
Completed:  
02/11/91

<u>Constituents</u>	<u>Reporting Units</u>	<u>Analysis Results</u>	<u>Minimum Reporting Level</u>
Acenaphthene	µg/L	None Detected	3.
Acenaphthylene	µg/L	None Detected	3.
Aldrin	µg/L	None Detected	3.
Aniline	µg/L	None Detected	3.
Anthracene	µg/L	None Detected	3.
Benzo (a) anthracene	µg/L	None Detected	3.
Benzo (b) fluoranthene	µg/L	None Detected	3.
Benzo (k) fluoranthene	µg/L	None Detected	3.
Benzo (a) pyrene	µg/L	None Detected	3.
Benzo (ghi) perylene	µg/L	None Detected	3.
Benzoic Acid	µg/L	None Detected	3.
Benzyl Alcohol	µg/L	None Detected	3.
Butyl Benzyl phthalate	µg/L	None Detected	3.
alpha-BHC	µg/L	None Detected	3.
beta-BHC	µg/L	None Detected	3.
delta-BHC	µg/L	None Detected	3.
gamma-BHC	µg/L	None Detected	3.
bis(2-chloroethyl)ether	µg/L	None Detected	3.
bis(2-chloroethoxy)methane	µg/L	None Detected	3.
bis(2-ethylhexyl)phthalate	µg/L	None Detected	3.
bis(2-chloroisopropyl)ether	µg/L	None Detected	3.
4-Bromophenyl phenyl ether	µg/L	None Detected	3.
4-Chloroaniline	µg/L	None Detected	3.
2-Chloronaphthalene	µg/L	None Detected	3.
4-Chlorophenyl phenyl ether	µg/L	None Detected	3.
Crysene	µg/L	None Detected	3.
4,4-DDD'	µg/L	None Detected	3.
4,4-DDE'	µg/L	None Detected	3.
4,4-DDT'	µg/L	None Detected	3.
Dibenzo (a,h) anthracene	µg/L	None Detected	3.



Base Neutrals and Acids (Continued)

Page 2

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<u>Constituents</u>	<u>Reporting Units</u>	<u>Analysis Results</u>	<u>Minimum Reporting Level</u>
Dibenzofuran	µg/L	None Detected	3.
Di-n-butyl phthalate	µg/L	None Detected	3.
1,3-Dichlorobenzene	µg/L	None Detected	3.
1,2-Dichlorobenzene	µg/L	None Detected	3.
1,4-Dichlorobenzene	µg/L	None Detected	3.
3,3-Dichlorobenzidine	µg/L	None Detected	3.
Dieldrin	µg/L	None Detected	3.
Diethyl phthalate	µg/L	None Detected	3.
Dimethyl phthalate	µg/L	None Detected	3.
2,4-Dinitrotoluene	µg/L	None Detected	3.
2,6-Dinitrotoluene	µg/L	None Detected	3.
Di-n-octylphthalate	µg/L	None Detected	3.
1,2-Diphenylhydrazine	µg/L	None Detected	3.
Endosulfan sulfate	µg/L	None Detected	3.
Endrin aldehyde	µg/L	None Detected	3.
Fluoranthene	µg/L	None Detected	3.
Fluorene	µg/L	None Detected	3.
Heptachlor	µg/L	None Detected	3.
Heptachlor epoxide	µg/L	None Detected	3.
Hexachlorobenzene	µg/L	None Detected	3.
Hexachlorobutadiene	µg/L	None Detected	3.
Hexachloroethane	µg/L	None Detected	3.
Ideno (1,2,3-cd) pyrene	µg/L	None Detected	3.
Isophorone	µg/L	None Detected	3.
2-Methylnaphthalene	µg/L	None Detected	3.
Naphthalene	µg/L	None Detected	3.
2-Nitroaniline	µg/L	None Detected	3.
3-Nitroaniline	µg/L	None Detected	3.
4-Nitroaniline	µg/L	None Detected	3.
Nitrobenzene	µg/L	None Detected	3.
N-Nitrosodi-n-propylamine	µg/L	None Detected	3.
Phenanthrene	µg/L	None Detected	3.
Pyrene	µg/L	None Detected	3.
1,2,4-Trichlorobenzene	µg/L	None Detected	3.
4-Chloro-3-methylphenol	µg/L	None Detected	3.
2-Chlorophenol	µg/L	None Detected	3.
2,4-Dichlorophenol	µg/L	None Detected	3.
2,4-Dimethylphenol	µg/L	None Detected	3.
2,4-Dinitrophenol	µg/L	None Detected	3.

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Base Neutrals and Acids (Continued)

Page 3

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<u>Constituents</u>	<u>Reporting Units</u>	<u>Analysis Results</u>	<u>Minimum Reporting Level</u>
2-Methyl-4,6-dinitrophenol	µg/L	None Detected	3.
2-Methylphenol	µg/L	None Detected	3.
4-Methylphenol	µg/L	None Detected	3.
2-Nitrophenol	µg/L	None Detected	3.
4-Nitrophenol	µg/L	None Detected	3.
Pentachlorophenol	µg/L	None Detected	3.
Phenol	µg/L	None Detected	3.
2,4,6-Trichlorophenol	µg/L	None Detected	3.
2,4,6-Trichlorophenol	µg/L	None Detected	3.
Benzidene	µg/L	None Detected	3.
Endosulfan I	µg/L	None Detected	3.
Endosulfan II	µg/L	None Detected	3.
Endrin	µg/L	None Detected	3.
Hexachlorocyclopentadiene	µg/L	None Detected	3.
2-Naphthylamine	µg/L	None Detected	3.
N-Nitrosodimethylamine	µg/L	None Detected	3.
N-Nitrosodiphenylamine	µg/L	None Detected	3.

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