



GILFILIAN ENGINEERING & ENVIRONMENTAL TESTING, INC.

Professional Environmental Consultants

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January 16, 1996

Mike Kreiber, P.E.
Alaska Department of Environmental Conservation
Mat-Su District Office
PO Box 871064
Wasilla, AK 99687

R E C E I V E D

JAN 17 1996

RE: Ground water Monitoring Report
ADEC UST Facility ID. #2540
Knik Texaco, Wasilla, Ak
GE²T Project No. 93147

DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
MSDO

Dear Mr. Kreiber:

This letter is to present you with the laboratory test results from the most recent ground water monitoring event at the above referenced site. On December 8, 1995, Mr. Tom Johnston, an Environmental Specialist with our firm, purged MW1, MW2, and MW3 of 8 gallons of water (approximately 3 bore volumes). After sufficient time elapsed to allow for the wells to recharge, ground water samples were collected. The water samples were submitted to CT&E for analysis of BTEX according to EPA Test Method 602. The test results are included with this letter (referenced as CT&E Reference No. 95.5386), and are summarized in Table 1.

Table 1: Water Test Results

Sample No.	Date Collected	Static Water* Elevation (ft.)	Benzene (ppb)	Total BTEX (ppb)
MW1	12/8/95	89.14	1190	1342.5
MW2	12/8/95	88.96	86	592
MW3	12/8/95	88.84	6500	24366
MW4 **	12/8/95	-	6410	24800

ppb = parts per billion

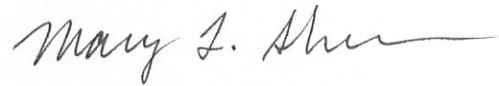
* - Ground Water elevations, reference to datum at top of NE bolt on Goodyear Sign

** - MW4 sample is a duplicate of MW3.

Our firm is in the process of researching a ground water treatment method for Knik Texaco. The method utilizes ORC, Oxygen Release Compound, to release oxygen slowly into the water to enhance bioremediation. This method is being used at numerous sites around the country, and is very cost effective. We would like to discuss this treatment method with you and if it meets with your preliminary approval, we will prepare a work plan for submittal to your office for final approval.

We look forward to your response to this letter. If you have any questions, please contact us at 277-2021.

Sincerely,



Mary L. Shreves, PEI
Engineering Associate

c: Herb Rosencrans, Knik Texaco



CT&E Environmental Services Inc.

Laboratory Division

CT&E Ref.# 95.5386-1
Matrix WATER
Client Sample ID S1 MW-1

Laboratory Analysis Report

Client Name TESORO AK PETROLEUM
Ordered By
Project Name KNIK TEXACO
Project#
PWSID UA

WORK Order 20080
Printed Date 12/13/95 @ 15:09 hrs.
Collected Date 12/08/95 @ 14:00 hrs.
Received Date 12/08/95 @ 16:20 hrs.

Technical Director STEPHEN C. EDE

Released By *Sharon Patten*

Sample Remarks: SAMPLE COLLECTED BY: TOM JOHNSTON.

Parameter	Results	QC Qual	Units	Method	Allowable Limits	Ext. Date	Anal Date	Init
Aromatics-BTEX				EPA 602 18AAC78	n/a			
Benzene	1.19	D	mg/L	EPA 602 18AAC78		12/12/95	12/12/95	SPM
Toluene	0.019		mg/L	EPA 602 18AAC78		12/11/95	12/11/95	SPM
Ethylbenzene	0.063		mg/L	EPA 602 18AAC78		12/11/95	12/11/95	SPM
p&m Xylene	0.068		mg/L	EPA 602 18AAC78		12/11/95	12/11/95	SPM
o-Xylene	0.0025		mg/L	EPA 602 18AAC78		12/11/95	12/11/95	SPM

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

GT = Greater Than

200 W. Potter Drive, Anchorage, AK 99518-1605 — Tel: (907) 562-2343 Fax: (907) 561-5301

ENVIRONMENTAL FACILITIES IN ALASKA, CALIFORNIA, FLORIDA, ILLINOIS, MARYLAND, MICHIGAN, MISSOURI, NEW JERSEY, OHIO, WEST VIRGINIA



CT&E Ref.# 95.5386-2
Matrix WATER
Client Sample ID S2 MW-2

Client Name TESORO AK PETROLEUM
Ordered By
Project Name KNIK TEXACO
Project#
PWSID UA

WORK Order 20080
Printed Date 12/13/95 @ 15:09 hrs.
Collected Date 12/08/95 @ 14:15 hrs.
Received Date 12/08/95 @ 16:20 hrs.

Technical Director STEPHEN C. EDE

Released By [Signature]

Sample Remarks: SAMPLE COLLECTED BY: TOM JOHNSTON.

Table with columns: Parameter, Results, QC Qual, Units, Method, Allowable Limits, Ext. Date, Anal Date, Init. Rows include Aromatics-BTEX, Benzene, Toluene, Ethylbenzene, p&m Xylene, o-Xylene.

* See Special Instructions Above

** See Sample Remarks Above

U = Undetected, Reported value is the practical quantification limit.

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NA = Not Analyzed

LT = Less Than

GT = Greater Than



CT&E Ref.# 95.5386-3
Matrix WATER
Client Sample ID S3 MW-3

Client Name TESORO AK PETROLEUM
Ordered By
Project Name KNIK TEXACO
Project#
PWSID UA

WORK Order 20080
Printed Date 12/13/95 @ 15:09 hrs.
Collected Date 12/08/95 @ 14:30 hrs.
Received Date 12/08/95 @ 16:20 hrs.

Technical Director STEPHEN C. EDE

Released By [Signature]

Sample Remarks: SAMPLE COLLECTED BY: TOM JOHNSTON.

Table with columns: Parameter, Results, QC Qual, Units, Method, Allowable Limits, Ext. Date, Anal Date, Init. Rows include Aromatics-BTEX, Benzene, Toluene, Ethylbenzene, p&m Xylene, o-Xylene.

* See Special Instructions Above
** See Sample Remarks Above
U = Undetected, Reported value is the practical quantification limit.
D = Secondary dilution.

UA = Unavailable
NA = Not Analyzed
LT = Less Than
GT = Greater Than



CT&E Ref.# 95.5386-4
Matrix WATER
Client Sample ID S4 MW-4

Client Name TESORO AK PETROLEUM
Ordered By
Project Name KNIK TEXACO
Project#
PWSID UA

WORK Order 20080
Printed Date 12/13/95 @ 15:09 hrs.
Collected Date 12/08/95 @ 14:40 hrs.
Received Date 12/08/95 @ 16:20 hrs.

Technical Director STEPHEN C. EDE

Released By [Signature]

Sample Remarks: SAMPLE COLLECTED BY: TOM JOHNSTON.

Table with columns: Parameter, Results, QC Qual, Units, Method, Allowable Limits, Ext. Date, Anal Date, Init. Rows include Aromatics-BTEX, Benzene, Toluene, Ethylbenzene, p&m Xylene, o-Xylene.

* See Special Instructions Above
** See Sample Remarks Above
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D = Secondary dilution.

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NA = Not Analyzed
LT = Less Than
GT = Greater Than



CT&E Ref.# 95.5386-5
Matrix OTHER
Client Sample ID LEVEL 1 QA/QC DATA PACKAGE-ORGANICS

Client Name TESORO AK PETROLEUM
Ordered By
Project Name KNIK TEXACO
Project#
PWSID UA

WORK Order 20080
Printed Date 12/13/95 @ 15:09 hrs.
Collected Date 12/08/95 @
Received Date 12/08/95 @ 16:20 hrs.

Technical Director STEPHEN C. EDE

Released By [Signature]

Sample Remarks: TECHNICAL/COMPLETENESS REQUIREMENTS MET EXCEPT FOR CONDITIONS LISTED.

Table with 9 columns: Parameter, Results, QC Qual, Units, Method, Allowable Limits, Ext. Date, Anal Date, Init

QA/QC Summary I
Organics

I. Receipt
Sample received in good
condition unless noted

II. Holding Time
All holding times met
unless noted

Regulatory

III. Analysis
A. Calibration
...All criteria met

B. Blanks
...All criteria met

C. Spike Sample(s)
...All criteria met

D. Duplicate Sample(s)
...All criteria met

E. LabControl Sample(s)
...All criteria met

F. Surrogate(s)
...All criteria met

Certified by: K. MAHER

* See Special Instructions Above

** See Sample Remarks Above

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D = Secondary dilution.

UA = Unavailable

NA = Not Analyzed

LT = Less Than

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