PETROTEK

P.O. Box 612317 • San Jose, California 95161

Phone (408) 453-1888 • FAX (408) 453-1897
Contractors License #590295

5/96

Fred's Pager #: 408-552-8595

Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway Rm 250
Alameda CA 94502-6577
Attn.: Julliette Shin
RE: Tank Closure Report for 1310 Central Ave, Alameda, Ca.

A. Closure Report Activities:
1. Remove Concrete over fuel tanks
2. Remove soil over fuel tanks
3. Fiberglass tank floated
4. Steel Tanks stuck to mud, no backfill.
5. 50 ton crane to remove tanks.

B. Tank, Fittings, Ect.:
1. Fiberglass tank was de-laminating on top, had pin holes- 10,000 Gal. regular
2. Steel tanks looked ok. 5000 and 7500 gal., Premium and Mid-grade.
3. Piping looked ok.

C. Excavation:
1. Slight odor and sheen on water.

D. Sampling Methods:
1. Soil by hand and backhoe
2. Water by bailer and by hand

E. Remedial Measures:
1. Water table found. No excess digging.

F. Plot Plan:
1. See attached.

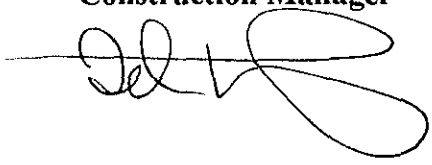
G. Change of Custody:
1. See Attached.

H. Laboratory Reports:
1. See Attached.

I. TSDF to Generation:
1. See Attached.

J. Disposal of Soil:
1. Soil was hauled to B&J Landfill, approx.. 400 tons.
2. See Attached.

Fred Nattkemper
Construction Manager



DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 948[illegible]

NO. 24[illegible]

CUSTOMER
ETROTEK - SA[illegible]
JOB NO.
96808[illegible]

FOR: ERICKSON, INC. TANK NO. 17743

LOCATION: RICHMOND DATE: 96/05/07 TIME: 09[illegible]

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UG

This is to certify that I have personally determined that this tank is in accordance with th[illegible] American Petroleum Institute and have found the condition to be in accordance with its assigned [illegible]ssificatio[illegible] This certificate is based on conditions existing at the time the inspection hereinafter set forth w[illegible] completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 10000 GALLON TANK CONDITION SAFE FOR [illegible]

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED [illegible] SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The [illegible] content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within [illegible]ssable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Francisco Crespo
REPRESENTATIVE

TITLE

Dave Safo
INSPECTOR

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES [illegible] NY

NO. 24

CUSTOMER
ETEC TEK – SA
JOB NO.
968083

FOR: ERICKSON, INC. TANK NO. 11744

LOCATION: RICHMOND DATE: 96/05/07 TIME: 09:28

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT UO

This is to certify that I have personally determined that this tank is in accordance with the Americ Petroleum Institute and have found the condition to be in accordance with its assigned designatio This certificate is based on conditions existing at the time the inspection herein set forth w completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 350 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TAN SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doub immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmosphe changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: That is the [illegible] of the atmosphere is at lea 19.5 percent [illegible] and that [illegible] concentrations; and (c) In th judgment of the Inspector, the resi[illegible] for existing atmospheric conditio while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been clean sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deem necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitation under which it was issued.

Francisco Chapo — REPRESENTATIVE
[illegible] — TITLE
Dave Safo — INSPECTOR

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE

CERTIFIED SERVICES CO[illegible]

NO. 2400

CUSTOMER [illegible] SAN
NO.
83

FOR: ERICKSON, INC. TANK NO. 12[illegible]

LOCATION: RICHMOND DATE: 96/05/[illegible] TIME: 09:23

TEST METHOD VISUAL GASTECH/1314 SMEN LAST PRODUCT ULG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE [illegible] GALLONS CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment [illegible] ent of the atmosphere is at least 19.5 percent by [illegible] that (b) toxic [illegible] concentrations; and (c) In the judgment of the Inspector, the residues [illegible] existing atmospheric conditions while maintained as directed on the Inspector's cer[illegible]

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

Dave Saito

REPRESENTATIVE TITLE INSPECTOR

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE
CERTIFIED SERVICES COMPANY

255 Parr Boulevard - Richmond, California 948..

NO. 2400

CUSTOMER
..TROTEK -- SAN
JOB NO

FOR: ERICK... ..NC. TANK NO. ____

LOCATION: RICHMOND DATE: 96/05/07 TIME: 09:23

TEST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT ULG

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE ____ CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within [illegible] concentrations; and (c) In the judgment of the [illegible] the residues are [illegible] existing atmospheric conditions while [illegible]

SAFE FOR FIRE: Means that in the compartment [illegible] designated (a) The con[illegible] of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE TITLE INSPECTOR Dave Sato

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6 968083

Department of Toxic Substances Control, Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC001178712 — Manifest Document No.: 91416 2 3
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 95894623

3. Generator's Name and Mailing Address: ALASKA GAS, 1310 CENTRAL AVE, ALAMEDA CA 94501
4. Generator's Phone: 510 271-0360

B. State Generator's ID

5. Transporter 1 Company Name: ERICKSON INC
6. US EPA ID Number: CAD009466392

C. State Transporter's ID
D. Transporter's Phone: (510) 235-1793

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
Erickson, Inc.
255 Parr Blvd.
Richmond, CA. 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID: CAD009466392
H. Facility's Phone: (510) 235-1393

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	002	TP	7000	P	
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above:
Qty (2) Empty Storage Tank(s)#12795,12796
Which tank(s) have been inerted with 15 lbs Dry Ice Per 1000 Gallon Capacity.

K. Handling Codes for Wastes Listed Above: a. 01/99

15. Special Handling Instructions and Additional Information:
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name. PRITPAUL SAPPAL Phone (510) 231-0360

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: for Owner Richard L. Ortiz / PRIT PAUL S. SAPPAL — Signature: [signature] for Pritpaul Sappal — Month/Day/Year: 04 30 96

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RICH POLLASTRINI 2FUC — Signature: [signature] — Month/Day/Year: 04 30 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month/Day/Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: DAVID SATO — Signature: DAVE SATO — Month/Day/Year: 05 01 96

DO NOT WRITE BELOW THIS LINE.

MAIL THIS COPY TO DTSC ... 3000, Sacramento, CA

DTSC 8022A (1/95)
EPA 8700—22

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

95894623

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-96)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

R.T 21

See Instructions on back of page 6.

948083

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAC001137872
Manifest Document No.: 94636
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

A. State Manifest Document Number: 95894636

3. Generator's Name and Mailing Address: Alaska Gas
1310 Central Ave
Alameda Ca 94501

4. Generator's Phone: 510 271 0360

B. State Generator's ID

5. Transporter 1 Company Name: Erickson Inc
6. US EPA ID Number: CAD009466392

C. State Transporter's ID
D. Transporter's Phone: 510 235 1393

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address:
Erickson,Inc.
255 Parr Blvd.
Richmond,CA. 94801

10. US EPA ID Number: CAD009466392

G. State Facility's ID: CAD009466392
H. Facility's Phone: (510)235-1393

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	002	TP	12500	P	State 512; EPA/Other NONE
b.					State; EPA/Other
c.					State; EPA/Other
d.					State; EPA/Other

J. Additional Descriptions for Materials Listed Above:
a. 2 Empty Storage Tank(s) #12785 1986
Tank(s) have been inerted with 15 lbs. Dry Ice Per 1000 Gallon Capacity.

K. Handling Codes for Wastes Listed Above: a. 01

15. Special Handling Instructions and Additional Information:
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name Paul S Appel & Phone 510 271 0360

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
PRITPAUL S. SAPPAL	[signature]	05	02	96

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Rick Adler	[signature]	05	02	96

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

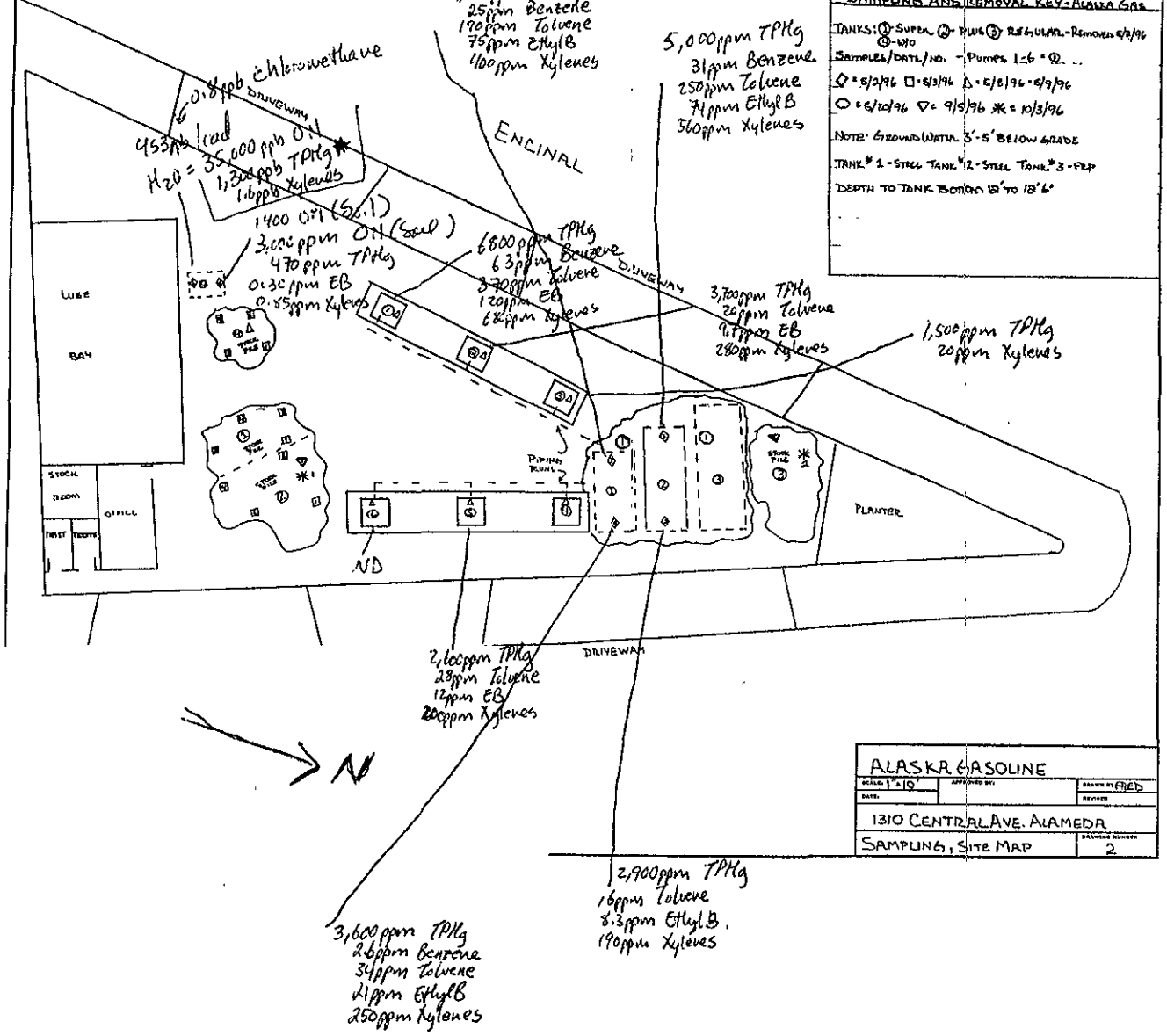
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
DAVID SATO	DAVE SATO	05	02	96

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/95)
EPA 8700—22

GENERATOR — IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550



* Not Typical Gas pattern

* 2,800ppb TPHg
100ppb Benzene
60ppb Toluene
560ppb Xylenes
} Creek Water Sample

Allied Environmental Services West
"The Contaminated Soil Specialist"
The Allied Environmental Group
a division of Global Spill Management Inc.
77 Mark Dr. Suite 21 San Rafael, California 94903
(800) 989-3478 (DIRT) (415) 492-9030 FAX (415) 479-5013

5 November 1996

Fred Nattkemper
Petrotek
925 Commercial Street
San Jose, CA 95112
fax: (408) 453-1897

RE: ALASKA GASOLINE

Dear Fred:

As per your request, I have included below the name and address of the disposal facility where the soil from the Alsaka Gasoline was taken.

B&J Landfill/Alta Environmental
6426 Hay Road
Vacaville, CA 95687

If you have any questions or need any additional information please contact me at (415) 492-9030.

Sincerely,

Joshua DeCarl

DRIVEWAY

ENCINAL

LUBE

BAY

STOCK

ROOM

OFFICE

REST

ROOMS

STOCK PILE

STOCK PILE

STOCK PILE

PIPING RUNS

DRIVEWAY

DRIVE

N

CENTRAL

SAMPLING AND REMOVAL KEY - ALASKA GAS

TANKS: ① - SUPER ② - PLUS ③ - REGULAR - REMOVED 5/2/96
④ - W/O

SAMPLES/DATE/NO. - PUMPS 1-6 = ①

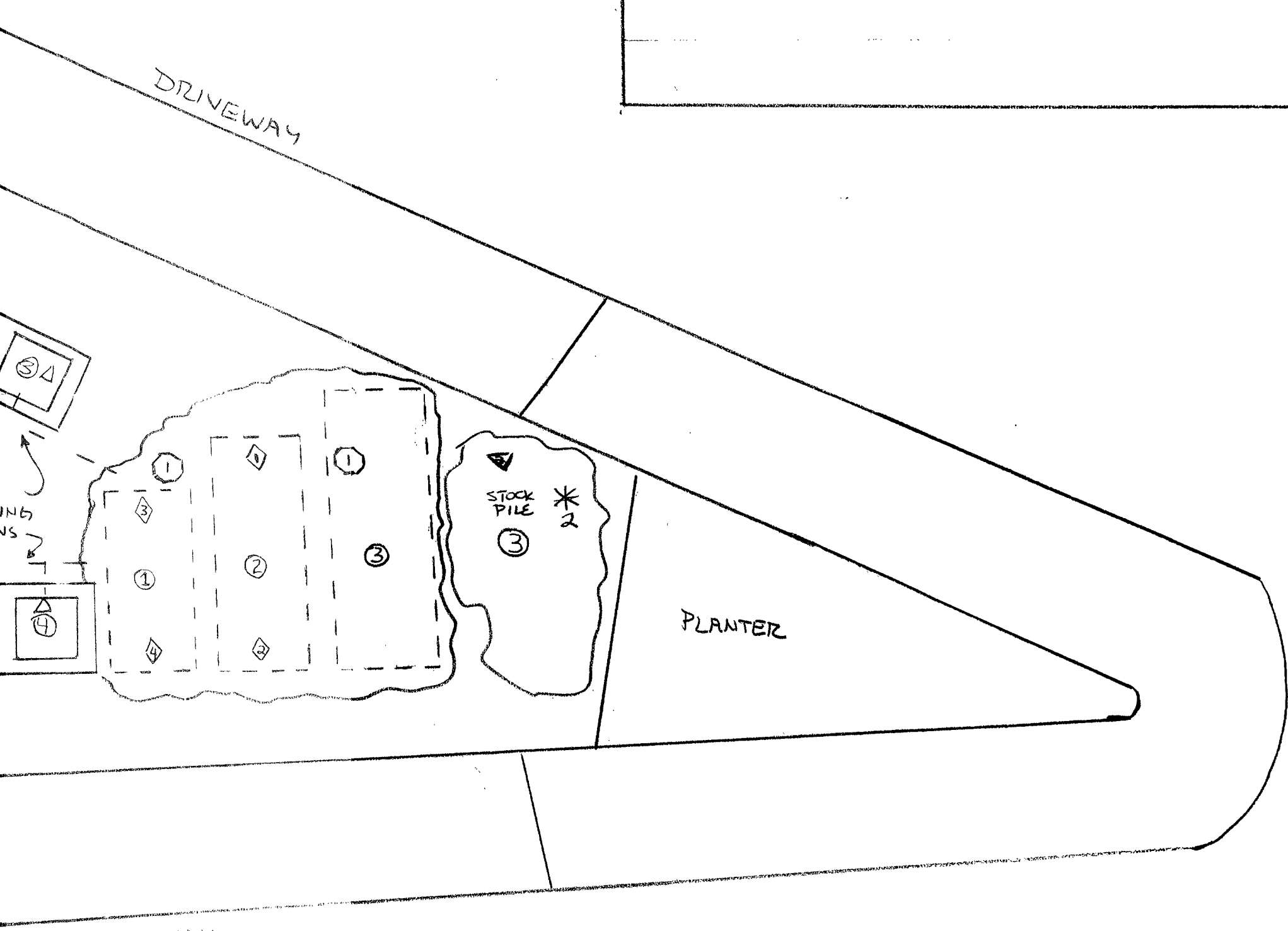
◇ = 5/2/96 □ = 5/3/96 △ = 5/8/96 - 5/9/96

⬡ = 5/20/96 ▽ = 9/5/96 ✳ = 10/3/96

NOTE: GROUNDWATER 3'-5' BELOW GRADE

TANK # 1 - STEEL TANK # 2 - STEEL TANK # 3 - FRP

DEPTH TO TANK BOTTOM 12' TO 12'6"



ALASKA GASOLINE		
SCALE: 1" = 10'	APPROVED BY:	DRAWN BY FRED
DATE:		REVISED
1310 CENTRAL AVE. ALAMEDA		
SAMPLING, SITE MAP		DRAWING NUMBER 2

SAMPLING A

TANKS: ① SUPER
④ - W/O

SAMPLES/DATE/N

◇ = 5/2/96 □ = 5/3

⬡ = 5/20/96 ▽ =

NOTE: GROUND W

TANK # 1 - STEEL T

DEPTH TO TANK

ENCINAL

DRIVEWAY

PIPING RUNS

STOCK PILE

PLANTER

DRIVEWAY

CENTRAL

ALAS

SCALE: 1" = 10'

DATE:

1310 CE

SAMPLIN

KEY PER PLOT PLAN

ENVIRONMENTAL PROTECTION
96 NOV -7 PM 1:52

AN / EN Inc

Analytical & Environmental Chemistry

05/20/96

A/E4131

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID:	**ALASKA GASOLINE**
Date Received by Lab:	05/07/96
Total Number of Samples:	9
Sample Matrix:	**SOIL(5), SOIL COMPOSIT(3), & WATER(1)**

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline, Stoddard) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.

Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides - GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7,1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 16 pages.

Reviewed and Approved: Laurie Glantz-Murphy

Laurie Glantz-Murphy, Laboratory Manager

AN / EN Inc
Analytical & Environmental Chemistry

TPH-EXTRACTABLE (DIESEL & MOTOR OIL RANGES) BY GC/FID

Client Project/I.D.: **ALASKA GASOLINE**

Date Sampled: 05/02/96 - 05/03/96
Date Received: 05/06/96

Matrix: **Soil**
Analyst:

Concentration in sample expressed as ug/g (ppm).

Sample ID	Diesel	Oil	Lab I.D.	Date Extracted	Date Analyzed	PQL (ppm)
WASTE OIL NORTH END	**ND**	**1400**	4131-05	05/07/96	05/08/96	200
WASTE OIL COMPOSITE	**ND**	**3800**	4131-08	05/07/96	05/08/96	1000
Method Blank	**ND**	**ND**	4131-MB	05/07/96	05/07/96	10

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Diesel - Extractable hydrocarbons in the boiling range of Diesel(C12-C24).
Motor Oil - Extractable hydrocarbons in the boiling range of Motor Oil(C24-C40)

Total Extractable Petroleum Hydrocarbons (as Diesel) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 3550 is used for sample preparation

AN / EN Inc
Analytical & Environmental Chemistry

TPH-EXTRACTABLE (DIESEL & MOTOR OIL RANGES) BY GC/FID

Client Project/I.D.: **ALASKA GASOLINE**

Date Sampled: 05/02/96
Date Received: 05/06/96
Date Extracted: 05/07/96
Matrix: **Water**
Analyst:

Concentration in sample expressed as ug/L (ppb).

Sample ID	Diesel	Oil	Lab I.D.	Date Analyzed	PQL
WASTE OIL PIT WATER	**ND**	**35000**	4131-01	05/08/96	5000
Method Blank	**ND**	**ND**	4131-MB	05/08/96	50

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Diesel - Extractable hydrocarbons in the boiling range of Diesel(C12-C24).
Motor Oil - Extractable hydrocarbons in the boiling range of Motor Oil(C24-C40)

Total Extractable Petroleum Hydrocarbons (as Diesel) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 3550 is used for sample preparation

AN / EN Inc
Analytical & Environmental Chemistry

TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE - SOIL

Batch I.D.: 0506-13

Date Extracted: 05/07/96
Date Analyzed: 05/07/96

Concentration of sample and spikes expressed as ug/g (ppm).

ANALYTE	Spike Added	LCS Conc	LCS %Rec	%Rec Limits
Diesel	50	48	96%	57-116

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits.

455 RESERVATION ROAD, SUITE G • MARINA, CA 93933 • (408) 883-0123 • FAX (408) 883-0122

AN / EN Inc
Analytical & Environmental Chemistry

TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE/DUPLICATE - WATER

Batch I.D. WLCS: 0508-08
Batch I.D. WLCS/D: 0508-09

Date Extracted: 05/07/96
Date Analyzed: 05/08/96

Concentration of sample and spikes expressed as ug/L (ppb).

ANALYTE	Spike Added	LCS Conc	LCSD Conc	LCS %Rec	LCSD %Rec	RPD	%Rec Limits	RPD Limits
Diesel	500	455	460	91%	92%	-1%	57-116	37

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits.

AN / EN Inc
Analytical & Environmental Chemistry

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.: **ALASKA GASOLINE**

Matrix: **Soil**
Date Received: 05/06/96
Analyst:

Sample I.D.:	PLUS UL WEST END	PLUS UL EAST END	SUPERUL WEST END	SUPERUL EAST END	W. OIL NORTH END	SUPERUL COMP.	W. OIL COMP.	PLUSUL COMP	PQL ppm
Methyl-tert-Butyl Ether	<5	<5	<5	<5	ND	<5	ND	<.3	0.10
Benzene	31	<2	25	2.6	ND	17	ND	<.2	0.05
Toluene	250	16	190	34	ND	120	ND	.59	0.05
Ethylbenzene	74	8.3	75	21	ND	21	ND	.18	0.05
Xylenes-Total	560	190	400	250	ND	330	.06	5.6	0.05
TPH-Gasoline	5000	2900	4400	3600	ND	2900	9.4	290	5.00
Surrogate Recovery									Limits
a,a,a-TFT(FID)	100%	92%	97%	95%	93%	86%	89%	99%	64-129
4-BFB(FID)	100%	99%	96%	93%	95%	106%	94%	95%	55-151
4-BFB(PID)	102%	102%	105%	100%	105%	111%	99%	97%	68-137
Dilution Factor	50	50	50	50	1	50	1	3	
Laboratory I.D.:	4131-01	4131-02	4131-03	4131-04	4131-05	4131-07	4131-08	4131-09	
Batch I.D.:	0507-13	0507-14	0507-15	0507-16	0507-34	0507-19	0508-09	0508-10	
Date Sampled:	05/02/96	05/02/96	05/02/96	05/02/96	05/02/96	05/03/96	05/03/96	05/03/96	
Date Analyzed:	05/07/96	05/07/96	05/07/96	05/07/96	05/08/96	05/07/96	05/08/96	05/08/96	

Concentration of samples expressed as ug/g (ppm).
PQL = Practical Quantitation Limit.
ND = Not Detected at or above the PQL.
< = Increased PQL due to sample dilution.

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992 Method 5030 (Purge & Trap) is used for sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

AN / EN Inc
Analytical & Environmental Chemistry

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.: **ALASKA GASOLINE**

Laboratory I.D.:	4131-06W	Sample I.D.:	**WASTE OIL PIT WATER**
Batch I.D.:	0507-22.D		
Date Sampled:	05/02/96	Date Analyzed:	05/07/96
Date Received:	05/06/96	Dilution:	1
Matrix:	**Water**	Analyst:	

Concentration of sample expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.
Benzene	ND	.5
Toluene	ND	.5
Ethylbenzene	ND	.5
Xylenes-Total	1.6	.5
TPH-Gasoline	1,300. *	50.

PQL = Practical Quantitation Limit.
ND = Not Detected at or above the PQL.

* Not a typical Gasoline pattern; possibly very aged Gasoline or Stoddard.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	97%	64-129
4-BFB(FID)	84%	55-151
4-BFB(PID)	93%	68-137

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992 Method 5030 (Purge & Trap) is used for sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.

AN / EN Inc
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VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0507-01.D
Date Aquired: 05/07/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	104%	73-126
4-BFB(FID)	101%	67-146
4-BFB(PID)	101%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992 Method 5030 (Purge & Tr is used for the sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989. Method 5030 is used for sample preparation/introduction.

AN / EN Inc
Analytical & Environmental Chemistry

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0508-01.D
Date Aquired: 05/08/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	103%	73-126
4-BFB(FID)	106%	67-146
4-BFB(PID)	101%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992. Method 5030 (Purge & Tr is used for the sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis.
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Aquired: 05/07/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	40.	99%	82-113
Benzene	20.	20.	101%	84-113
Toluene	20.	20.	102%	90-110
Ethylbenzene	20.	20.	101%	89-112
m,p-Xylenes	20.	20.	100%	88-113
o-Xylene	20.	20.	102%	88-114
TPH-Gasoline	1,250.	1,359.	109%	77-130

Surrogates	LSC-8020M	Batch ID:	0507-04	
a,a,a-TFT-FID			100%	73-126
4-BFB-FID			102%	67-146
4-BFB-PID			103%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0507-05	
a,a,a-TFT-FID			96%	73-126
4-BFB-FID			124%	67-146
4-BFB-PID			102%	82-119

* = Values outside of QC limits.
LCS Recovery: 0 out of 7 outside limits.

LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Aquired: 05/08/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	105%	82-113
Benzene	20.	21.	103%	84-113
Toluene	20.	21.	103%	90-110
Ethylbenzene	20.	21.	103%	89-112
m,p-Xylenes	20.	21.	105%	88-113
o-Xylene	20.	21.	107%	88-114
TPH-Gasoline	1,250.	1,314.	105%	77-130

Surrogates	LSC-8020M	Batch ID:	0508-04	
a,a,a-TFT-FID			97%	73-126
4-BFB-FID			102%	67-146
4-BFB-PID			107%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0508-05	
a,a,a-TFT-FID			92%	73-126
4-BFB-FID			121%	67-146
4-BFB-PID			105%	82-119

* = Values outside of QC limits.
LCS Recovery: 0 out of 7 outside limits.

VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: **8010**
Laboratory Number: **4131-05**
Date Sampled: **05/02/96**
Date Received: **05/06/96**
Matrix: **Soil**

Sample I.D.: **Waste Oil North End**
Project: **Alaska Gas**
Dilution: **50**
Date Analyzed: **05/15/96**
Analyst:

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		50
75-01-4	Vinyl chloride	ND		50
74-83-9	Bromomethane	ND		50
75-00-3	Chloroethane	ND		50
75-69-4	Trichlorofluoromethane	ND		50
75-35-4	1,1-Dichloroethene	ND		50
76-13-1	Trichlorotrifluoroethane	ND		50
75-09-2	Methylene chloride	ND		50
156-60-5	trans-1,2-Dichloroethene	ND		50
75-35-3	1,1-Dichloroethane	ND		50
156-69-4	cis-1,2-Dichloroethene	ND		50
67-66-3	Chloroform	ND		50
71-55-6	1,1,1-Trichloroethane	ND		50
56-23-5	Carbon tetrachloride	ND		50
107-06-2	1,2-Dichloroethane	ND		50
79-01-6	Trichloroethene	ND		50
78-87-5	1,2-Dichloropropane	ND		50
75-27-4	Bromodichloromethane	ND		50
10061-01-5	cis-1,3-Dichloropropene	ND		50
10061-02-6	trans-1,3-dichloropropene	ND		50
79-00-5	1,1,2-Trichloroethane	ND		50
127-18-4	Tetrachloroethene	ND		50
124-48-1	Chlorodibromomethane	ND		50
108-90-7	Chlorobenzene	ND		50
106-93-4	1,2-Dibromoethane (EDB)	ND		50
75-25-2	Bromoform	ND		50
79-34-5	1,1,2,2-Tetrachloroethane	ND		50
541-73-1	1,3-Dichlorobenzene	ND		50
106-46-7	1,4-Dichlorobenzene	ND		50
95-50-1	1,2-Dichlorobenzene	ND		50

Surrogates	Recovery	Limits
3-Chloro-1-propene	93%	70-135%
4-Chlorotoluene	101%	70-135%

PQL = Practical Quantitation Limit
ND = None Detected at or above the PQL

NOTE: Sample was diluted due to matrix interference.

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Analytical & Environmental Chemistry

VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method:	**8010**	Sample I.D.:	**Method Blank**
Laboratory Number:	**BLK0515B**	Project:	**Alaska Gas**
Date Sampled:	**N/A**	Dilution:	**50**
Date Received:	**N/A**	Date Analyzed:	**05/15/96**
Matrix:	**Soil**	Analyst:	

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		50
75-01-4	Vinyl chloride	ND		50
74-83-9	Bromomethane	ND		50
75-00-3	Chloroethane	ND		50
75-69-4	Trichlorofluoromethane	ND		50
75-35-4	1,1-Dichloroethene	ND		50
76-13-1	Trichlorotrifluoroethane	ND		50
75-09-2	Methylene chloride	ND		50
156-60-5	trans-1,2-Dichloroethene	ND		50
75-35-3	1,1-Dichloroethane	ND		50
156-69-4	cis-1,2-Dichloroethene	ND		50
67-66-3	Chloroform	ND		50
71-55-6	1,1,1-Trichloroethane	ND		50
56-23-5	Carbon tetrachloride	ND		50
107-06-2	1,2-Dichloroethane	ND		50
79-01-6	Trichloroethene	ND		50
78-87-5	1,2-Dichloropropane	ND		50
75-27-4	Bromodichloromethane	ND		50
10061-01-5	cis-1,3-Dichloropropene	ND		50
10061-02-6	trans-1,3-dichloropropene	ND		50
79-00-5	1,1,2-Trichloroethane	ND		50
127-18-4	Tetrachloroethene	ND		50
124-48-1	Chlorodibromomethane	ND		50
108-90-7	Chlorobenzene	ND		50
106-93-4	1,2-Dibromoethane (EDB)	ND		50
75-25-2	Bromoform	ND		50
79-34-5	1,1,2,2-Tetrachloroethane	ND		50
541-73-1	1,3-Dichlorobenzene	ND		50
106-46-7	1,4-Dichlorobenzene	ND		50
95-50-1	1,2-Dichlorobenzene	ND		50

Surrogates	Recovery	Limits
3-Chloro-1-propene	91%	70-135%
4-Chlorotoluene	101%	70-135%

PQL = Practical Quantitation Limit
ND = None Detected at or above the PQL

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LABORATORY CONTROL SAMPLE

EPA Method: **8010**
Laboratory Number: **LCS0515A**
Matrix: **Water**

Date Analyzed: **05/15/96**
Analyst:

Concentration expressed as ug/L (ppb).

COMPOUND	Spike Added	LCS Conc	LCS Rec	%Rec Limits
1,1-Dichloroethene	10	9.6	96%	75-125
1,2-Dichloroethane	10	9.7	97%	75-125
Trichloroethene	10	9.5	95%	75-125
Tetrachloroethene	10	10.6	106%	75-125
Chlorobenzene	10	9.2	92%	75-125
Surrogates				
3-Chloro-1-propene			96%	80-120
4-Chlorotoluene			97%	80-120

* = Values outside of QC limits.

Spike Recovery:0 out of 5 outside limits.

QC-LAB CONTROL SAMPLE

455 RESERVATION ROAD, SUITE G • MARINA, CA 93933 • (408) 883-0123 • FAX (408) 883-0122

A/E 4131 (1/2)

CHAIN OF CUSTODY RECORD

PETROTEK
P.O. Box 612317
San Jose, California 95161

JOB NO.:
LAB. NO.:
PROJECT NAME: Alaska Gasoline
SAMPLER (Signature): [signature]
DATE: 5-2-96

SAMPLE LOCATION/INFORMATION

DTE	NO.	SAMPLE LOCATION/INFORMATION		NO. OF CONTAINERS	TPH-G	TPH-D	BTEX	MTBE (lead)	TOC	Chlorinated hydrocarbons (8010)	Semivolatile cpds 8270	SEALED? metals (Cd, Pb, Ni, Zn)	REMARKS
PUL	1	Plus UL west end	S	1	X		X	X (B)					-01
PUL	2	Plus UL east end	S	1	X		X	X (B)					-02
SUL	1	Super UL west end	S	1	X		X	X (B)					-03
SUL	2	Super UL east end	S	1	X		X	X (B)					-04
W/oil	1	waste oil North end	Soil	1	X	X	X	X	X	X	(C) X	(A)	-05
W/oil	2	waste oil water samples waste oil pit	W/a	3	(X)	(X)	(X)		(X)	IS X	IS X	(B)	-06

A/E   A/E

IS = insuf. sample

Not sufficient water sample for all requested Analyses. 5/7/96 [initials] Fred will resample
No water left - brought soil (4134)

Sub-Sampled for lead on 5-7-96 1200 by [signature]

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	5-6-96 1240	Diane [signature] AA/EN
[signature] AA/EN	5-10-96 8:30	
		RECEIVED FOR LAB. BY (Signature): [signature] 5-10-96 0830

LAB TO NOTE - Y/N → REMARKS
Inchcape to do Metals (5 Left) on (A) and Lead on (B). 8270 on (C)
PO # 4131 2 copies of report please

CHAIN OF CUSTODY RECORD

CHAIN OF CUSTODY RECORD

A/E4131 (2/2)

CHAIN OF CUSTODY RECORD

PETROTEK
P.O. Box 612317
San Jose, California 95161

JOB NO.

LAB. NO.

PROJECT NAME: Alaska Gasoline

SAMPLER (Signature): Anthony Nunez

DATE: 5-3-96

DATE	NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	TPH-G	TPH-D	BTEX	5520E/F Oil & Grease	Motor oil range organics by GC	SEALED?	REMARKS
5-3-96	1	Super unleaded Northside	1	X		X				Composite
"	2	Super unleaded Eastside	1	X		X				"
"	3	Super unleaded westside	1	X		X				" -07C
"	4	Super unleaded southside	1	X		X				"
5-3-96	1	Waste oil northside	1	X	X	X	X			"
"	2	waste oil East side	1	X	X	X	X			" -08C
"	3	waste oil westside	1	X	X	X	X			"
"	4	waste oil Southside	1	X	X	X	X			"
5-3-96	1	Plus unleaded northside	1	X		X				"
"	2	Plus unleaded Eastside	1	X		X				"
"	3	Plus unleaded westside	1	X		X				" -09C
"	4	Plus unleaded southside	1	X		X				"

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	5/6/96 1240	Diane Theesen
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB. BY (Signature)

LAB TO NOTE - Y/N → REMARKS

AN / EN Inc
Analytical & Environmental Chemistry

05/29/96

A/E4131

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

Following are the results for AN/EN lab#-A/E4131 that were subcontracted to Inchape Testing Services-Anametrix Laboratories

Client Project ID: **ALASKA GASOLINE**
Date Received by AN/EN: 05/07/96
Number of Samples: 9
Sample Matrix: **SOIL(5), SOIL COMPOSIT(3), & WATER(1)**

I you have any questions or need assistance, please feel free to call me at 408/883-0123.

Sincerely,

Laurie Glantz-Murphy

Inchcape Testing Services
Environmental Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605097
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4131

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9605097- 1	01
9605097- 2	02
9605097- 3	03
9605097- 4	04
9605097- 5	05
9605097- 6	06

This report is organized in sections according to the specific Inchcape laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Inchcape cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Inchcape is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Project Manager

5-23-96
Date

This report consists of 22 pages.

GC/MS REPORT DESCRIPTION

Organic Analysis Data Sheets (OADS)
OADS forms contain tabulated results for target compounds. The OADS are grouped by method and within each method, organized sequentially in order of increasing Inchcape Testing Services ID Number.

Tentatively Identified Compounds (TICs)
TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted to Inchcape Testing Services. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)
SRS forms contain quality assurance data. An SRS form will be printed for each method. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*" and the total number of surrogates outside the limits will be listed in the column labeled "Total Out."

Matrix Spike Recovery, Laboratory Control Sample Forms
These forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes, laboratory control samples and their duplicates. This information is a statement of accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*".

Qualifiers
Inchcape Testing Services uses several data qualifiers (Q) in its report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- **U** - Indicates that the compound was analyzed but not detected at or above the specified reporting limit.
- **B** - Indicates that the compound was detected in the associated method blank.
- **J** - Indicates that the compound was detected at an amount below the specified reporting limit Consequently, the amount should be considered an estimated value
- **E** - Indicates that the amount reported exceeded the linear range of the instrument calibration
- **D** - Indicates that the compound was detected in an analysis performed at a secondary dilution
- **A** - Indicates that the tentatively identified compound is a suspected aldol condensation product This is common in EPA Method 8270 analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report form. However, the report cover letter and report summary pages do display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., <u>not</u> corrected for method blank contamination

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605097
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4131
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9605097- 5	05	SOIL	05/02/96	8270

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605097
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4131
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- Samples 05MS and 05MSD had high recoveries of spiked compounds 4-nitrophenol and 2,4-dinitrotoluene for the EPA Method 8270B analysis due to a possible matrix interference. The samples had high relative percent difference of 2,4-dinitrotoluene.
- Two internal standard areas are outside of the QC limits for the EPA Method 8270B analysis of samples 05, 05MS and 05MSD indicating a possible matrix effect.
- A surrogate recovery is outside of the QC limits for the EPA Method 8270B analysis of sample 05MSD due to a possible matrix effect. The sample was reanalyzed with similar results. Only the original analysis is reported.

Department Supervisor 5/22/96 Date

Chemist 5/21/96 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Sample ID : 05
Matrix : SOIL
Date Sampled : 05/02/96
Date Extracted : 05/15/96
Amount Extracted : 30.0 g
Date Analyzed : 05/15/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605097-05
Lab File ID : MPY09705

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	330	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	330	ND	U
95-57-8	2-Chlorophenol	330	ND	U
541-73-1	1,3-Dichlorobenzene	330	ND	U
106-46-7	1,4-Dichlorobenzene	330	ND	U
95-50-1	1,2-Dichlorobenzene	330	ND	U
95-48-7	2-Methylphenol	330	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	ND	U
106-44-5	4-Methylphenol	330	ND	U
621-64-7	N-Nitroso-di-n-propylamine	330	ND	U
67-72-1	Hexachloroethane	330	ND	U
98-95-3	Nitrobenzene	330	ND	U
78-59-1	Isophorone	330	ND	U
88-75-5	2-Nitrophenol	330	ND	U
105-67-9	2,4-Dimethylphenol	330	ND	U
111-91-1	bis(2-Chloroethoxy)methane	330	ND	U
120-83-2	2,4-Dichlorophenol	330	ND	U
120-82-1	1,2,4-Trichlorobenzene	330	ND	U
91-20-3	Naphthalene	330	ND	U
106-47-8	4-Chloroaniline	330	ND	U
87-68-3	Hexachlorobutadiene	330	ND	U
59-50-7	4-Chloro-3-Methylphenol	330	ND	U
91-57-6	2-Methylnaphthalene	330	ND	U
77-47-4	Hexachlorocyclopentadiene	330	ND	U
88-06-2	2,4,6-Trichlorophenol	330	ND	U
95-95-4	2,4,5-Trichlorophenol	1700	ND	U
91-58-7	2-Chloronaphthalene	330	ND	U
88-74-4	2-Nitroaniline	1700	ND	U
131-11-3	Dimethylphthalate	330	ND	U
208-96-8	Acenaphthylene	330	ND	U
606-20-2	2,6-Dinitrotoluene	330	ND	U
99-09-2	3-Nitroaniline	1700	ND	U
83-32-9	Acenaphthene	330	ND	U
51-28-5	2,4-Dinitrophenol	1700	ND	U
100-02-7	4-Nitrophenol	1700	ND	U
132-64-9	Dibenzofuran	330	ND	U
121-14-2	2,4-Dinitrotoluene	330	ND	U
84-66-2	Diethylphthalate	330	ND	U
7005-72-3	4-Chlorophenyl-phenylether	330	ND	U
86-73-7	Fluorene	330	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID	: ALASKA GASOLINE	Anametrix ID	: 9605097-05
Sample ID	: 05	Lab File ID	: MPY09705
Matrix	: SOIL		
Date Sampled	: 05/02/96		
Date Extracted	: 05/15/96		
Amount Extracted	: 30.0 g	% Moisture	:
Date Analyzed	: 05/15/96	Dilution Factor	: 1.0
Instrument ID	: msd4.i	Conc. Units	: ug/Kg
Volume of Final Extract:	1 ml		

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	1700	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	ND	U
86-30-6	N-nitrosodiphenylamine (1)	330	ND	U
101-55-3	4-Bromophenyl-phenylether	330	ND	U
118-74-1	Hexachlorobenzene	330	ND	U
87-86-5	Pentachlorophenol	330	ND	U
85-01-8	Phenanthrene	330	ND	U
120-12-7	Anthracene	330	ND	U
84-74-2	Di-n-butylphthalate	330	ND	U
206-44-0	Fluoranthene	330	ND	U
129-00-0	Pyrene	330	ND	U
85-68-7	Butylbenzylphthalate	330	ND	U
91-94-1	3,3'-Dichlorobenzidine	660	ND	U
56-55-3	Benzo(a)anthracene	330	ND	U
218-01-9	Chrysene	330	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	660	ND	U
117-84-0	Di-n-octylphthalate	330	ND	U
205-99-2	Benzo(b)fluoranthene	330	ND	U
207-08-9	Benzo(k)fluoranthene	330	ND	U
50-32-8	Benzo(a)pyrene	330	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	ND	U
53-70-3	Dibenz(a,h)anthracene	330	ND	U
191-24-2	Benzo(g,h,i)perylene	330	ND	U
100-51-6	Benzyl Alcohol	330	ND	U
65-85-0	Benzoic Acid	1700	ND	U
62-75-9	N-Nitrosodimethylamine	330	ND	U
103-33-3	Azobenzene	330	ND	U
92-87-5	Benzidine	1700	ND	U
62-53-3	Aniline	330	ND	U

(1) - Cannot be separated from Diphenylamine

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Sample ID : SBLKKO
Matrix : SOIL
Date Sampled :
Date Extracted : 05/15/96
Amount Extracted : 30.0 g
Date Analyzed : 05/15/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : BY15H1B1
Lab File ID : BY15H1B1

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	330	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	330	ND	U
95-57-8	2-Chlorophenol	330	ND	U
541-73-1	1,3-Dichlorobenzene	330	ND	U
106-46-7	1,4-Dichlorobenzene	330	ND	U
95-50-1	1,2-Dichlorobenzene	330	ND	U
95-48-7	2-Methylphenol	330	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	ND	U
106-44-5	4-Methylphenol	330	ND	U
621-64-7	N-Nitroso-di-n-propylamine	330	ND	U
67-72-1	Hexachloroethane	330	ND	U
98-95-3	Nitrobenzene	330	ND	U
78-59-1	Isophorone	330	ND	U
88-75-5	2-Nitrophenol	330	ND	U
105-67-9	2,4-Dimethylphenol	330	ND	U
111-91-1	bis(2-Chloroethoxy)methane	330	ND	U
120-83-2	2,4-Dichlorophenol	330	ND	U
120-82-1	1,2,4-Trichlorobenzene	330	ND	U
91-20-3	Naphthalene	330	ND	U
106-47-8	4-Chloroaniline	330	ND	U
87-68-3	Hexachlorobutadiene	330	ND	U
59-50-7	4-Chloro-3-Methylphenol	330	ND	U
91-57-6	2-Methylnaphthalene	330	ND	U
77-47-4	Hexachlorocyclopentadiene	330	ND	U
88-06-2	2,4,6-Trichlorophenol	330	ND	U
95-95-4	2,4,5-Trichlorophenol	1700	ND	U
91-58-7	2-Chloronaphthalene	330	ND	U
88-74-4	2-Nitroaniline	1700	ND	U
131-11-3	Dimethylphthalate	330	ND	U
208-96-8	Acenaphthylene	330	ND	U
606-20-2	2,6-Dinitrotoluene	330	ND	U
99-09-2	3-Nitroaniline	1700	ND	U
83-32-9	Acenaphthene	330	ND	U
51-28-5	2,4-Dinitrophenol	1700	ND	U
100-02-7	4-Nitrophenol	1700	ND	U
132-64-9	Dibenzofuran	330	ND	U
121-14-2	2,4-Dinitrotoluene	330	ND	U
84-66-2	Diethylphthalate	330	ND	U
7005-72-3	4-Chlorophenyl-phenylether	330	ND	U
86-73-7	Fluorene	330	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID	: ALASKA GASOLINE	Anametrix ID	: BY15H1B1
Sample ID	: SBLKKO	Lab File ID	: BY15H1B1
Matrix	: SOIL		
Date Sampled	:		
Date Extracted	: 05/15/96		
Amount Extracted	: 30.0 g	% Moisture	:
Date Analyzed	: 05/15/96	Dilution Factor	: 1.0
Instrument ID	: msd4.i	Conc. Units	: ug/Kg
Volume of Final Extract:	1 ml		

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	1700	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	ND	U
86-30-6	N-nitrosodiphenylamine (1)	330	ND	U
101-55-3	4-Bromophenyl-phenylether	330	ND	U
118-74-1	Hexachlorobenzene	330	ND	U
87-86-5	Pentachlorophenol	330	ND	U
85-01-8	Phenanthrene	330	ND	U
120-12-7	Anthracene	330	ND	U
84-74-2	Di-n-butylphthalate	330	ND	U
206-44-0	Fluoranthene	330	ND	U
129-00-0	Pyrene	330	ND	U
85-68-7	Butylbenzylphthalate	330	ND	U
91-94-1	3,3'-Dichlorobenzidine	660	ND	U
56-55-3	Benzo(a)anthracene	330	ND	U
218-01-9	Chrysene	330	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	660	ND	U
117-84-0	Di-n-octylphthalate	330	ND	U
205-99-2	Benzo(b)fluoranthene	330	ND	U
207-08-9	Benzo(k)fluoranthene	330	ND	U
50-32-8	Benzo(a)pyrene	330	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	ND	U
53-70-3	Dibenz(a,h)anthracene	330	ND	U
191-24-2	Benzo(g,h,i)perylene	330	ND	U
100-51-6	Benzyl Alcohol	330	ND	U
65-85-0	Benzoic Acid	1700	ND	U
62-75-9	N-Nitrosodimethylamine	330	ND	U
103-33-3	Azobenzene	330	ND	U
92-87-5	Benzidine	1700	ND	U
62-53-3	Aniline	330	ND	U

(1) - Cannot be separated from Diphenylamine

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Matrix : SOIL

Anametrix ID : 9605097
Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 #	S8 #	TOT OUT
01	SBLKKO	74	86	78	76	81	94			0
02	SBLKKOLCS	74	86	82	78	81	100			0
03	SBLKKOLCSD	73	84	85	81	82	100			0
04	05	63	90	127	84	80	91			0
05	05MS	51	90	130	82	75	91			0
06	05MSD	46	92	142*	81	74	90			1
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(30-115)
S3 (TPH) = Terphenyl-d14	(18-137)
S4 (PHL) = Phenol-d5	(24-113)
S5 (2FP) = 2-Fluorophenol	(25-121)
S6 (TBP) = 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

MATRIX SPIKE RECOVERY FORM -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE Anametrix ID : 9605097-05
Sample ID : 05
Matrix : SOIL
Date Sampled : 05/02/96
Date Extracted : 05/15/96
Date Analyzed : 05/15/96
Instrument ID : msd4.i

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2500	0.0	1900	76	14-118
2-Chlorophenol	2500	0.0	1900	76	31-113
1,4-Dichlorobenzene	1700	0.0	1000	59	32-125
N-Nitroso-di-n-prop.(1)	1700	0.0	1100	65	32-129
1,2,4-Trichlorobenzene	1700	0.0	1300	76	29-150
4-Chloro-3-Methylphenol	2500	0.0	1900	76	32-104
Acenaphthene	1700	0.0	1500	88	29-139
4-Nitrophenol	2500	0.0	780	31*	33-114
2,4-Dinitrotoluene	1700	0.0	97	6*	34-115
Pentachlorophenol	2500	0.0	2200	88	20-126
Pyrene	1700	0.0	2200	129	28-143

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2500	1900	76	0	30	14-118
2-Chlorophenol	2500	1900	76	0	30	31-113
1,4-Dichlorobenzene	1700	1000	59	0	30	32-125
N-Nitroso-di-n-prop.(1)	1700	1200	70	7	30	32-129
1,2,4-Trichlorobenzene	1700	1400	82	8	30	29-150
4-Chloro-3-Methylphenol	2500	1900	76	0	30	32-104
Acenaphthene	1700	1500	88	0	30	29-139
4-Nitrophenol	2500	650	26*	18	30	33-114
2,4-Dinitrotoluene	1700	67	4*	40*	30	34-115
Pentachlorophenol	2500	2200	88	0	30	20-126
Pyrene	1700	2400	141	9	30	28-143

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 11 outside limits
Spike Recovery: 4 out of 22 outside limits

COMMENTS: _____

LAB CONTROL SAMPLE FORM -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Sample ID : SBLKKO
Matrix : SOIL
Date Sampled :
Date Extracted : 05/15/96
Prep. Batch ID : hdy15x41
Date Analyzed : 05/15/96
Instrument ID : msd4.i

Lab File ID : MY15H1B1/NY15H1B1

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	2500	0.0	1800	72	35- 97
2-Chlorophenol	2500	0.0	1900	76	37- 99
1,4-Dichlorobenzene	1700	0.0	1100	65	41- 87
N-Nitroso-di-n-prop.(1)	1700	0.0	1000	59	34-102
1,2,4-Trichlorobenzene	1700	0.0	1300	76	41- 94
4-Chloro-3-Methylphenol	2500	0.0	1900	76	38-101
Acenaphthene	1700	0.0	1400	82	40- 97
4-Nitrophenol	2500	0.0	2400	96	24-106
2,4-Dinitrotoluene	1700	0.0	1400	82	35- 98
Pentachlorophenol	2500	0.0	2600	104	25-121
Pyrene	1700	0.0	1400	82	42-112

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2500	2000	80	10	30	35- 97
2-Chlorophenol	2500	2000	80	5	30	37- 99
1,4-Dichlorobenzene	1700	1200	70	7	30	41- 87
N-Nitroso-di-n-prop.(1)	1700	1000	59	0	30	34-102
1,2,4-Trichlorobenzene	1700	1300	76	0	30	41- 94
4-Chloro-3-Methylphenol	2500	2000	80	5	30	38-101
Acenaphthene	1700	1400	82	0	30	40- 97
4-Nitrophenol	2500	2300	92	4	30	24-106
2,4-Dinitrotoluene	1700	1400	82	0	30	35- 98
Pentachlorophenol	2500	2600	104	0	30	25-121
Pyrene	1700	1400	82	0	30	42-112

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

LAB CONTROL SAMPLE FORM -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE Lab File ID : MY15H1B1/NY15H1B1
Sample ID : SBLKKO
Matrix : SOIL
Date Sampled :
Date Extracted : 05/15/96
Prep. Batch ID : hdy15x41
Date Analyzed : 05/15/96
Instrument ID : msd4.i

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	2500	0.0	1800	72	35- 97
2-Chlorophenol	2500	0.0	1900	76	37- 99
1,4-Dichlorobenzene	1700	0.0	1100	65	41- 87
N-Nitroso-di-n-prop.(1)	1700	0.0	1000	59	34-102
1,2,4-Trichlorobenzene	1700	0.0	1300	76	41- 94
4-Chloro-3-Methylphenol	2500	0.0	1900	76	38-101
Acenaphthene	1700	0.0	1400	82	40- 97
4-Nitrophenol	2500	0.0	2400	96	24-106
2,4-Dinitrotoluene	1700	0.0	1400	82	35- 98
Pentachlorophenol	2500	0.0	2600	104	25-121
Pyrene	1700	0.0	1400	82	42-112

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2500	2000	80	10	30	35- 97
2-Chlorophenol	2500	2000	80	5	30	37- 99
1,4-Dichlorobenzene	1700	1200	70	7	30	41- 87
N-Nitroso-di-n-prop.(1)	1700	1000	59	0	30	34-102
1,2,4-Trichlorobenzene	1700	1300	76	0	30	41- 94
4-Chloro-3-Methylphenol	2500	2000	80	5	30	38-101
Acenaphthene	1700	1400	82	0	30	40- 97
4-Nitrophenol	2500	2300	92	4	30	24-106
2,4-Dinitrotoluene	1700	1400	82	0	30	35- 98
Pentachlorophenol	2500	2600	104	0	30	25-121
Pyrene	1700	1400	82	0	30	42-112

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

INCHCAPE TESTING SERVICES, SAN JOSE LABORATORIES
REPORT DESCRIPTION - INORGANICS

Analytical Data Report (ADR)

The ADR contains tabulated results for inorganic analytes. All field samples, QC samples and blanks were prepared and analyzed according to procedures in the following references:

- "Test Methods for Evaluating Solid Waste," SW-846, EPA, 3rd Edition, November 1986.
- "Methods for Chemical Analysis of Water and Wastes," EPA, 3rd Edition, 1983.
- CCR Title 22, Section 66261, Appendix II, California Waste Extraction Test.
- CCR Title 22, Section 66261, Appendix XI, Organic Lead.
- "Standard Methods for the Examination of Water and Wastewater," APHA, AWWA, WEF, 18th Edition, 1992.
- USEPA Contract Laboratory Program Statement of Work for Inorganic Analyses, ILM02.1, 1991.

Matrix Spike Report (MSR)

The MSR summarizes percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. MSRs may not be provided with all analytical reports. ITS-SJ control limit for MSR is 75-125% with 25% for RPD limits, except for Method 6010A, which is 80-120% with 25% RPD limits.

Laboratory Control Sample Report (LCSR)

The LCSR summarizes percent recovery information for laboratory control spikes on reagent water or soil. This information is a statement of performance for the method, i.e., the samples are properly prepared and analyzed according to the applicable methods. ITS-SJ control limit for LCSR is 80-120%.

Method Blank Report (MBR)

The MBR summarizes quality control information for reagents used in preparing samples. The absolute value of each analyte measured in the method blank should be below the method reporting limit for that analyte.

Post Digestion Spike Report (PDSR)

The PDSR summarizes percent recovery information for post digestion spikes. A post digestion spike is performed for a particular analyte if the matrix spike recovery is outside of established control limits. Any percent recovery for a post digestion spike outside of established limits for an analyte indicates probable matrix effects and interferences for that analyte. ITS-SJ control limit for PDSR is 75-125%.

Qualifiers (Q)

ITS-SJ uses several data qualifiers in inorganic reports. These qualifiers give additional information on the analytes reported. The following is a list of qualifiers and their meanings:

- I - Sample was analyzed at the stated dilution due to interferences.
- U - Analyte concentration was below the method reporting limit. For matrix and post digestion spike reports, a value of "0.0" is entered for calculation of the percent recovery.
- B - Sample concentration was below the reporting limit but above the instrument detection limit. Result is entered for calculation of the percent recovery only.
- H - Spike percent recovery is not calculated due to possible interferences from relatively high concentration level of the analyte in the unspiked sample.
- L - Reporting limit was increased to compensate for background absorbances or matrix interferences.

Comment Codes

In addition to qualifiers, the following codes are used in the comment section of all reports to give additional information about sample preparation methods:

- A - Sample was prepared for silver based on the silver digestion method developed by the Southern California Laboratory, Department of Health Services, "Acid Digestion for Sediments, Sludges, Soils and Solid Wastes. A Proposed Alternative to EPA SW846, Method 3050." Environmental Science and Technology, 1989, 23, 898-900.
- T - Spikes were prepared after extraction by the Toxicity Characteristic Leaching Procedure (TCLP).
- C - Spikes were prepared after extraction by the California Waste Extraction Test (CWET) method.
- D - Reported results are dissolved, not total, metals.

Reporting Conventions

Analytical values reported are gross values, i.e., <u>not</u> corrected for method blank contamination. Solid matrices are reported on a wet weight basis, unless specifically requested otherwise.

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605097
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4131
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9605097- 1	01	SOIL	05/02/96	6010
9605097- 2	02	SOIL	05/02/96	6010
9605097- 3	03	SOIL	05/02/96	6010
9605097- 4	04	SOIL	05/02/96	6010
9605097- 5	05	SOIL	05/02/96	6010
9605097- 6	06	WATER	05/02/96	6010

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605097
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4131
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Mona Kamel for 05/20/96
Department Supervisor Date

Chemist 5/20/96
Date

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
DATA REPORT

ITS-SJ Sample ID: **9605097-06**
Client Sample ID: **06**
Client Project Number: **ALASKA GASOLINE**
Matrix: **WATER**

SDG #: **N/A**
Date Sampled: **05/02/96**
Analyst:
Supervisor:

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Cadmium	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	5.0	**ND**	
Chromium	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	10.0	**114**	
Lead	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	3.0	**453**	
Nickel	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	40.0	**115**	
Zinc	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	20.0	**753**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
DATA REPORT

ITS-SJ Sample ID: **9605097-05**
Client Sample ID: **05**
Client Project Number: **ALASKA GASOLINE**
Matrix: **SOIL**

SDG #: **N/A**
Date Sampled: **05/02/96**
Analyst:
Supervisor:

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Cadmium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	0.50	**ND**	
Chromium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	1.0	**20.8**	
Lead	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	0.30	**2.2**	
Nickel	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	4.0	**13.5**	
Zinc	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	2.0	**14.0**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Lead-6010A**
Client Project Number: **ALASKA GASOLINE**
Matrix - Units: **SOIL - mg/Kg**

SDG #: **N/A**
Analyst:
Supervisor: MW

ITS-SJ Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9605097-01	01	3050A	ICP2	05/02/96	05/13/96	05/13/96	1	0.30	**1.8**	
9605097-02	02	3050A	ICP2	05/02/96	05/13/96	05/13/96	1	0.30	**13.3**	
9605097-03	03	3050A	ICP2	05/02/96	05/13/96	05/13/96	1	0.30	**1.9**	
9605097-04	04	3050A	ICP2	05/02/96	05/13/96	05/13/96	1	0.30	**8.9**	
BY136SA	METHOD BLANK	3050A	ICP2	N/A	05/13/96	05/13/96	1	0.30	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
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METHOD BLANK REPORT

ITS-SJ Sample ID: **BY136WB**
Client Sample ID: **N/A**
ITS-SJ WO #: **9605097**
Client Project Number: **ALASKA GASOLINE**
Matrix: **WATER**

SDG #: **N/A**
Analyst:
Supervisor:

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Cadmium	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	5.0	**ND**	
Chromium	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	10.0	**ND**	
Lead	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	3.0	**ND**	
Nickel	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	40.0	**ND**	
Zinc	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	20.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
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METHOD BLANK REPORT

ITS-SJ Sample ID: **BY136SA**
Client Sample ID: **N/A**
ITS-SJ WO #: **9605097**
Client Project Number: **ALASKA GASOLINE**
Matrix: **SOIL**

SDG #: **N/A**
Analyst: /
Supervisor: MW

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Cadmium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	0.50	**ND**	
Chromium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	1.0	**ND**	
Lead	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	0.30	**ND**	
Nickel	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	4.0	**ND**	
Zinc	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	2.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

ITS-SJ Sample ID: **LY136WB**
Client Sample ID: **N/A**
ITS-SJ WO #: **9605097**
Client Project Number: **ALASKA GASOLINE**
Matrix: **WATER**

SDG #: **N/A**
Analyst:
Supervisor: MK

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Cadmium	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	50.0	48.8	**97.6**	
Chromium	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	200	189	**94.5**	
Lead	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	500	470	**94.0**	
Nickel	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	500	473	**94.6**	
Zinc	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	500	502	**100**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

ITS-SJ Sample ID: **LY136SA**
Client Sample ID: **N/A**
ITS-SJ WO #: **9605097**
Client Project Number: **ALASKA GASOLINE**
Matrix: **SOIL**

SDG #: **N/A**
Analyst:
Supervisor:

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Cadmium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	5.0	5.2	**104**	
Chromium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	20.0	19.8	**99.0**	
Lead	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	50.0	49.4	**98.8**	
Nickel	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	50.0	49.1	**98.2**	
Zinc	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	50.0	51.5	**103**	

COMMENTS:

10208 9605097 (10/1)

CHAIN OF CUSTODY RECORD

A/E 4131 (1/2)

PETROTEK
P.O. Box 612317
San Jose, California 95161

JOB NO.

PROJECT NAME: Alaska Gasoline

LAB. NO.

SAMPLER (Signature): [signature]

DATE: 5-2-96

DTE	NO.	SAMPLE LOCATION/INFORMATION		NO. OF CONTAINERS	TPH-G	TPH-D	BTEX	MTBE	lead	TOX	chlorinated hydrocarbons (8010)	semi volatile ppds 8270	SEALED? metals (Cd, Cr, Pb, Ni, Zn)	REMARKS
PuL	1	Plus UL west end	S	1	X		X	X	B					-01
PuL	2	Plus UL east end	S	1	X		X	X	B					-02
SuL	1	Super UL west end	S	1	X		X	X	B					-03
SuL	2	Super UL east end	S	1	X		X	X	B					-04
W/oil	1	waste oil North end	Soil	1	X	X	X	X	B	X	X (C)		X (A)	-05
W/oil	2	waste oil water samples waste oil pit	Water	3	X	X	X		X	IS X	IS		B	-06

A/E A/E

IS = insuf. sample

Not sufficient water sample for all requested Analyses. 5/7/96 [initials] Fred will resample

No water left - brought soil (4134)

Sub-Sampled for lead on 5-7-96 1200 by [signature]

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	5-6-96 1240	Diane Moss... AN/EN
[signature] AN/EN	5-10-96 8:30	
		RECEIVED FOR LAB. BY: [signature] 5-10-96 0830

LAB TO NOTE - Y/N → REMARKS

Inchcape to do Metals (5Loft) on (A) and Lead on (B). 8270 on (C)
PO# 4131 2 copies of report please

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9605097 **Client Project ID:** ALASKA GAS.

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact ____ Broken ____	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 3° **Note:** If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A

Samples

Chain of custody seal present for each container? Condition: Intact ____ Broken ____	YES	NO	(N/A)
Samples arrived within holding time?	YES	NO	N/A
Samples in proper containers for methods requested? Condition of containers: Intact ✓ Broken ____ If NO, were samples transferred to proper container(s)?	(YES)	NO	
Were VOA containers received with zero headspace? If NO, was it noted on the chain of custody?	YES	NO	(N/A)
Were container labels complete? (ID, date, time, preservative)	(YES)	NO	N/A
Were samples properly preserved? If NO, was the preservative added at time of receipt?	(YES)	NO	N/A
pH check of samples required at time of receipt? If YES, pH checked and recorded by: HH	(YES)	NO	
Sufficient amount of sample received for methods requested? If NO, has the client or PM been notified?	YES	NO	
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	(N/A)

Chain of Custody

Chain of custody form received with samples?	(YES)	NO	
Has it been filled out completely and in ink?	YES	(NO)	
Sample IDs on chain of custody form agree with labels?	(YES)	NO	
Number of containers on chain agree with number received?	(YES)	NO	
Analysis methods specified?	(YES)	NO	
Sampling date and time indicated?	YES	(NO)	
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO	
Turnaround time? Standard ✓ Rush ____			

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: HH Date: 5/10/96 Project Manager: MW Date: 5-13-96

△ KEY PER PLOT PLAN

ENVIRONMENTAL PROTECTION
96 NOV -7 PM 1:52

AN/EN, Inc.

05/20/96

A/E4134

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID:	**ALASKA GASOLINE**
Date Received by Lab:	05/08/96
Total Number of Samples:	1
Sample Matrix:	**SOIL**

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline, Stoddard) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.

Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides - GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7,1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 10 pages.

Reviewed and Approved: Laurie Glantz-Murphy

Laurie Glantz-Murphy, Laboratory Manager

AN / EN Inc

TPH-EXTRACTABLE (DIESEL & MOTOR OIL RANGES) BY GC/FID

Client Project/I.D.: **ALASKA GASOLINE**

Date Sampled: 05/08/96
Date Received: 05/08/96

Matrix: **Soil**
Analyst:

Concentration in sample expressed as ug/g (ppm).

Sample ID	Diesel	Oil	Lab I.D.	Date Extracted	Date Analyzed	PQL (ppm)
WASTE OIL PIT BOTTOM	ND	3000	4134-01	05/09/96	05/09/96	1000
Method Blank	**ND**	**ND**	4134-MB	05/09/96	05/09/96	10

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Diesel - Extractable hydrocarbons in the boiling range of Diesel(C12-C24).
Motor Oil - Extractable hydrocarbons in the boiling range of Motor Oil(C24-C40)

Total Extractable Petroleum Hydrocarbons (as Diesel) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 3550 is used for sample preparation

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TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE - SOIL

Batch I.D.: 0509-06

Date Extracted: 05/09/96
Date Analyzed: 05/09/96

Concentration of sample and spikes expressed as ug/g (ppm).

ANALYTE	Spike Added	LCS Conc	LCS %Rec	%Rec Limits
Diesel	50	52	104%	57-116

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits.

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VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project/I.D.: **ALASKA GASOLINE**

Laboratory I.D.:	4134-01	Sample I.D.:	**BOTTOM WASTE OIL PIT**
Batch I.D.:	0511-10.D		
Date Sampled:	05/08/96	Date Analyzed:	05/11/96
Date Received:	05/08/96	Dilution:	5
Matrix:	**Soil**	Analyst:	

Concentration of sample expressed as ug/g (ppm).

Analyte	Conc.		PQL
Methyl-tert-Butyl Ether	ND		.50
Benzene	ND		.25
Toluene	ND		.25
Ethylbenzene	.30		.25
Xylenes-Total	.85		.25
TPH-Gasoline	470.	P	25

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

P - Not a typical gasoline pattern; possibly weathered or the volatile fraction of a higher boiling mixture.

Methanol extraction

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	94%	64-129
4-BFB(FID)	97%	55-151
4-BFB(PID)	95%	68-137

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed , July 1992 Method 5030 (Purge & Trap) is used for the sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

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VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0511-01.D
Date Aquired: 05/10/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	102%	73-126
4-BFB(FID)	105%	67-146
4-BFB(PID)	103%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992 Method 5030 (Purge & Tr is used for the sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

AN / EN Inc

LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Aquired: 05/10/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	105%	82-113
Benzene	20.	20.	102%	84-113
Toluene	20.	20.	102%	90-110
Ethylbenzene	20.	20.	101%	89-112
m,p-Xylenes	20.	21.	103%	88-113
o-Xylene	20.	21.	104%	88-114
TPH-Gasoline	1,250.	1,346.	108%	77-130

Surrogates	LSC-8020M	Batch ID:	0511-04	
a,a,a-TFT-FID			98%	73-126
4-BFB-FID			103%	67-146
4-BFB-PID			104%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0511-05	
a,a,a-TFT-FID			91%	73-126
4-BFB-FID			122%	67-146
4-BFB-PID			103%	82-119

* = Values outside of QC limits.

LCS Recovery: 0 out of 7 outside limits.

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VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: **8010**
Laboratory Number: **4134-01**
Date Sampled: **05/08/96**
Date Received: **05/08/96**
Matrix: **Soil**

Sample I.D.: **Waste Oil Pit Bottom**
Project: **Alaska Gas**
Dilution: **100**
Date Analyzed: **05/15/96**
Analyst:

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		100
75-01-4	Vinyl chloride	ND		100
74-83-9	Bromomethane	ND		100
75-00-3	Chloroethane	ND		100
75-69-4	Trichlorofluoromethane	ND		100
75-35-4	1,1-Dichloroethene	ND		100
76-13-1	Trichlorotrifluoroethane	ND		100
75-09-2	Methylene chloride	ND		100
156-60-5	trans-1,2-Dichloroethene	ND		100
75-35-3	1,1-Dichloroethane	ND		100
156-69-4	cis-1,2-Dichloroethene	ND		100
67-66-3	Chloroform	ND		100
71-55-6	1,1,1-Trichloroethane	ND		100
56-23-5	Carbon tetrachloride	ND		100
107-06-2	1,2-Dichloroethane	ND		100
79-01-6	Trichloroethene	ND		100
78-87-5	1,2-Dichloropropane	ND		100
75-27-4	Bromodichloromethane	ND		100
10061-01-5	cis-1,3-Dichloropropene	ND		100
10061-02-6	trans-1,3-dichloropropene	ND		100
79-00-5	1,1,2-Trichloroethane	ND		100
127-18-4	Tetrachloroethene	ND		100
124-48-1	Chlorodibromomethane	ND		100
108-90-7	Chlorobenzene	ND		100
106-93-4	1,2-Dibromoethane (EDB)	ND		100
75-25-2	Bromoform	ND		100
79-34-5	1,1,2,2-Tetrachloroethane	ND		100
541-73-1	1,3-Dichlorobenzene	ND		100
106-46-7	1,4-Dichlorobenzene	ND		100
95-50-1	1,2-Dichlorobenzene	ND		100

Surrogates	Recovery	Limits
3-Chloro-1-propene	94%	70-135%
4-Chlorotoluene	101%	70-135%

PQL = Practical Quantitation Limit
ND = None Detected at or above the PQL

NOTE: Sample was diluted due to matrix interference.

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VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: **8010**
Laboratory Number: **BLK0515B**
Date Sampled: **N/A**
Date Received: **N/A**
Matrix: **Soil**

Sample I.D.: **Method Blank**
Project: **Alaska Gas**
Dilution: **50**
Date Analyzed: **05/15/96**
Analyst:

Concentration of sample expressed as ug/Kg (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		50
75-01-4	Vinyl chloride	ND		50
74-83-9	Bromomethane	ND		50
75-00-3	Chloroethane	ND		50
75-69-4	Trichlorofluoromethane	ND		50
75-35-4	1,1-Dichloroethene	ND		50
76-13-1	Trichlorotrifluoroethane	ND		50
75-09-2	Methylene chloride	ND		50
156-60-5	trans-1,2-Dichloroethene	ND		50
75-35-3	1,1-Dichloroethane	ND		50
156-69-4	cis-1,2-Dichloroethene	ND		50
67-66-3	Chloroform	ND		50
71-55-6	1,1,1-Trichloroethane	ND		50
56-23-5	Carbon tetrachloride	ND		50
107-06-2	1,2-Dichloroethane	ND		50
79-01-6	Trichloroethene	ND		50
78-87-5	1,2-Dichloropropane	ND		50
75-27-4	Bromodichloromethane	ND		50
10061-01-5	cis-1,3-Dichloropropene	ND		50
10061-02-6	trans-1,3-dichloropropene	ND		50
79-00-5	1,1,2-Trichloroethane	ND		50
127-18-4	Tetrachloroethene	ND		50
124-48-1	Chlorodibromomethane	ND		50
108-90-7	Chlorobenzene	ND		50
106-93-4	1,2-Dibromoethane (EDB)	ND		50
75-25-2	Bromoform	ND		50
79-34-5	1,1,2,2-Tetrachloroethane	ND		50
541-73-1	1,3-Dichlorobenzene	ND		50
106-46-7	1,4-Dichlorobenzene	ND		50
95-50-1	1,2-Dichlorobenzene	ND		50

Surrogates	Recovery	Limits
3-Chloro-1-propene	91%	70-135%
4-Chlorotoluene	101%	70-135%

PQL = Practical Quantitation Limit
ND = None Detected at or above the PQL

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Analytical & Environmental Chemistry

LABORATORY CONTROL SAMPLE

EPA Method: **8010**
Laboratory Number: **LCS0515A**
Matrix: **Water**

Date Analyzed: **05/15/96**
Analyst: RM

Concentration expressed as ug/L (ppb).

COMPOUND	Spike Added	LCS Conc	LCS Rec	%Rec Limits
1,1-Dichloroethene	10	9.6	96%	75-125
1,2-Dichloroethane	10	9.7	97%	75-125
Trichloroethene	10	9.5	95%	75-125
Tetrachloroethene	10	10.6	106%	75-125
Chlorobenzene	10	9 2	92%	75-125
Surrogates				
3-Chloro-1-propene			96%	80-120
4-Chlorotoluene			97%	80-120

* = Values outside of QC limits.

Spike Recovery:0 out of 5 outside limits.

QC-LAB CONTROL SAMPLE

455 RESERVATION ROAD, SUITE G • MARINA, CA 93933 • (408) 883-0123 • FAX (408) 883-0122

CHAIN OF CUSTODY RECORD

A/E 4134

PETROTEK
P.O. Box 612317
San Jose, California 95161

JOB NO.	PROJECT NAME	
LAB. NO.	SAMPLER (Signature)	
DATE 5-8-96	SAMPLE LOCATION/INFORMATION	

DATE	NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	TPH-G	TPH-D	BTEX	8270	8010			SEALED?	REMARKS
5-8-96	1	bottom of waste oil pit	1BL	X	X	X	+	X				slight odor

TPH-G, TPH-D, BTEX: AN/EN
8270: Inchcape
8010: AN/EN

Project name: Alaska Gasoline

Inchape to do 8270 only
Bill + report to AN/EN
PO #4134
2copies of report please
5/9/96 [initials]

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	LAB TO NOTE - Y/N → REMARKS
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB. BY (Signature)	Relinquished by [signature] 5/10/96 8:30 — Rec'd By: [signature] 5/10/96 08:30
[signature]	5/8/96 7:00 PM	[signature] AN/EN	

CHAIN OF CUSTODY RECORD

AN / EN Inc

Analytical Environmental Chemists

05/29/96

A/E4134

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

Following are the results for AN/EN lab#-A/E4134 that were subcontracted to Inchape Testing Services-Anametrix Laboratories

Client Project ID: **ALASKA GASOLINE**
Date Received by AN/EN: 05/08/96
Number of Samples: 1
Sample Matrix: **SOIL**

I you have any questions or need assistance, please feel free to call me at 408/883-0123.

Sincerely,

Laurie Glantz-Murphy

455 RESERVATION ROAD, SUITE G • MARINA, CA 93933 • (408) 883-0123 • FAX (408) 883-0122

Inchcape Testing Services
Environmental Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605098
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4134

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9605098- 1	1

This report is organized in sections according to the specific Inchcape laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Inchcape cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Inchcape is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

N Wakeda
Project Manager

5-23-96
Date

This report consists of 10 pages.

GC/MS REPORT DESCRIPTION

Organic Analysis Data Sheets (OADS)
OADS forms contain tabulated results for target compounds. The OADS are grouped by method and within each method, organized sequentially in order of increasing Inchcape Testing Services ID Number.

Tentatively Identified Compounds (TICs)
TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted to Inchcape Testing Services. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)
SRS forms contain quality assurance data. An SRS form will be printed for each method. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*" and the total number of surrogates outside the limits will be listed in the column labeled "Total Out."

Matrix Spike Recovery, Laboratory Control Sample Forms
These forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes, laboratory control samples and their duplicates. This information is a statement of accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*"

Qualifiers
Inchcape Testing Services uses several data qualifiers (Q) in its report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- **U** - Indicates that the compound was analyzed but not detected at or above the specified reporting limit
- **B** - Indicates that the compound was detected in the associated method blank
- **J** - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an estimated value
- **E** - Indicates that the amount reported exceeded the linear range of the instrument calibration
- **D** - Indicates that the compound was detected in an analysis performed at a secondary dilution
- **A** - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report form. However, the report cover letter and report summary pages do display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., <u>not</u> corrected for method blank contamination.

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605098
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4134
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9605098- 1	1	SOIL	05/08/96	8270

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605098
Date Received : 05/10/96
Project ID : ALASKA GASOLINE
Purchase Order: 4134
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.
- Sample 1 could not be analyzed at a lower dilution by EPA Method 8270B due to the high abundance of late eluting compound.
- Matrix spike and matrix spike duplicate were extracted for the EPA Method 8270B analysis but not analyzed because they could not be analyzed at a lower dilution due to the high abundance of late eluting compounds.
- Surrogates were diluted out in the EPA Method 8270B analysis of sample 1.

Department Supervisor 5/23/96 Date

Chemist 5/23/96 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Sample ID : 1
Matrix : SOIL
Date Sampled : 05/08/96
Date Extracted : 05/13/96
Amount Extracted : 30.0 g
Date Analyzed : 05/20/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605098-01
Lab File ID : MRY09801

% Moisture :
Dilution Factor : 20.0
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	6600	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	6600	ND	U
95-57-8	2-Chlorophenol	6600	ND	U
541-73-1	1,3-Dichlorobenzene	6600	ND	U
106-46-7	1,4-Dichlorobenzene	6600	ND	U
95-50-1	1,2-Dichlorobenzene	6600	ND	U
95-48-7	2-Methylphenol	6600	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	6600	ND	U
106-44-5	4-Methylphenol	6600	ND	U
621-64-7	N-Nitroso-di-n-propylamine	6600	ND	U
67-72-1	Hexachloroethane	6600	ND	U
98-95-3	Nitrobenzene	6600	ND	U
78-59-1	Isophorone	6600	ND	U
88-75-5	2-Nitrophenol	6600	ND	U
105-67-9	2,4-Dimethylphenol	6600	ND	U
111-91-1	bis(2-Chloroethoxy)methane	6600	ND	U
120-83-2	2,4-Dichlorophenol	6600	ND	U
120-82-1	1,2,4-Trichlorobenzene	6600	ND	U
91-20-3	Naphthalene	6600	ND	U
106-47-8	4-Chloroaniline	6600	ND	U
87-68-3	Hexachlorobutadiene	6600	ND	U
59-50-7	4-Chloro-3-Methylphenol	6600	ND	U
91-57-6	2-Methylnaphthalene	6600	ND	U
77-47-4	Hexachlorocyclopentadiene	6600	ND	U
88-06-2	2,4,6-Trichlorophenol	6600	ND	U
95-95-4	2,4,5-Trichlorophenol	34000	ND	U
91-58-7	2-Chloronaphthalene	6600	ND	U
88-74-4	2-Nitroaniline	34000	ND	U
131-11-3	Dimethylphthalate	6600	ND	U
208-96-8	Acenaphthylene	6600	ND	U
606-20-2	2,6-Dinitrotoluene	6600	ND	U
99-09-2	3-Nitroaniline	34000	ND	U
83-32-9	Acenaphthene	6600	ND	U
51-28-5	2,4-Dinitrophenol	34000	ND	U
100-02-7	4-Nitrophenol	34000	ND	U
132-64-9	Dibenzofuran	6600	ND	U
121-14-2	2,4-Dinitrotoluene	6600	ND	U
84-66-2	Diethylphthalate	6600	ND	U
7005-72-3	4-Chlorophenyl-phenylether	6600	ND	U
86-73-7	Fluorene	6600	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Sample ID : 1
Matrix : SOIL
Date Sampled : 05/08/96
Date Extracted : 05/13/96
Amount Extracted : 30.0 g
Date Analyzed : 05/20/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605098-01
Lab File ID : MRY09801

% Moisture :
Dilution Factor : 20.0
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	34000	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	34000	ND	U
86-30-6	N-nitrosodiphenylamine (1)	6600	ND	U
101-55-3	4-Bromophenyl-phenylether	6600	ND	U
118-74-1	Hexachlorobenzene	6600	ND	U
87-86-5	Pentachlorophenol	6600	ND	U
85-01-8	Phenanthrene	6600	ND	U
120-12-7	Anthracene	6600	ND	U
84-74-2	Di-n-butylphthalate	6600	ND	U
206-44-0	Fluoranthene	6600	ND	U
129-00-0	Pyrene	6600	ND	U
85-68-7	Butylbenzylphthalate	6600	ND	U
91-94-1	3,3'-Dichlorobenzidine	13000	ND	U
56-55-3	Benzo(a)anthracene	6600	ND	U
218-01-9	Chrysene	6600	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	13000	ND	U
117-84-0	Di-n-octylphthalate	6600	ND	U
205-99-2	Benzo(b)fluoranthene	6600	ND	U
207-08-9	Benzo(k)fluoranthene	6600	ND	U
50-32-8	Benzo(a)pyrene	6600	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	6600	ND	U
53-70-3	Dibenz(a,h)anthracene	6600	ND	U
191-24-2	Benzo(g,h,i)perylene	6600	ND	U
100-51-6	Benzyl Alcohol	6600	ND	U
65-85-0	Benzoic Acid	34000	ND	U
62-75-9	N-Nitrosodimethylamine	6600	ND	U
103-33-3	Azobenzene	6600	ND	U
92-87-5	Benzidine	34000	ND	U
62-53-3	Aniline	6600	ND	U

(1) - Cannot be separated from Diphenylamine

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Sample ID : SBLKBS
Matrix : SOIL
Date Sampled :
Date Extracted : 05/13/96
Amount Extracted : 30.0 g
Date Analyzed : 05/20/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : BY13H2BA
Lab File ID : BY13H2B1

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	330	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	330	ND	U
95-57-8	2-Chlorophenol	330	ND	U
541-73-1	1,3-Dichlorobenzene	330	ND	U
106-46-7	1,4-Dichlorobenzene	330	ND	U
95-50-1	1,2-Dichlorobenzene	330	ND	U
95-48-7	2-Methylphenol	330	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	ND	U
106-44-5	4-Methylphenol	330	ND	U
621-64-7	N-Nitroso-di-n-propylamine	330	ND	U
67-72-1	Hexachloroethane	330	ND	U
98-95-3	Nitrobenzene	330	ND	U
78-59-1	Isophorone	330	ND	U
88-75-5	2-Nitrophenol	330	ND	U
105-67-9	2,4-Dimethylphenol	330	ND	U
111-91-1	bis(2-Chloroethoxy)methane	330	ND	U
120-83-2	2,4-Dichlorophenol	330	ND	U
120-82-1	1,2,4-Trichlorobenzene	330	ND	U
91-20-3	Naphthalene	330	ND	U
106-47-8	4-Chloroaniline	330	ND	U
87-68-3	Hexachlorobutadiene	330	ND	U
59-50-7	4-Chloro-3-Methylphenol	330	ND	U
91-57-6	2-Methylnaphthalene	330	ND	U
77-47-4	Hexachlorocyclopentadiene	330	ND	U
88-06-2	2,4,6-Trichlorophenol	330	ND	U
95-95-4	2,4,5-Trichlorophenol	1700	ND	U
91-58-7	2-Chloronaphthalene	330	ND	U
88-74-4	2-Nitroaniline	1700	ND	U
131-11-3	Dimethylphthalate	330	ND	U
208-96-8	Acenaphthylene	330	ND	U
606-20-2	2,6-Dinitrotoluene	330	ND	U
99-09-2	3-Nitroaniline	1700	ND	U
83-32-9	Acenaphthene	330	ND	U
51-28-5	2,4-Dinitrophenol	1700	ND	U
100-02-7	4-Nitrophenol	1700	ND	U
132-64-9	Dibenzofuran	330	ND	U
121-14-2	2,4-Dinitrotoluene	330	ND	U
84-66-2	Diethylphthalate	330	ND	U
7005-72-3	4-Chlorophenyl-phenylether	330	ND	U
86-73-7	Fluorene	330	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Sample ID : SBLKBS
Matrix : SOIL
Date Sampled :
Date Extracted : 05/13/96
Amount Extracted : 30.0 g
Date Analyzed : 05/20/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : BY13H2BA
Lab File ID : BY13H2B1

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	1700	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	ND	U
86-30-6	N-nitrosodiphenylamine (1)	330	ND	U
101-55-3	4-Bromophenyl-phenylether	330	ND	U
118-74-1	Hexachlorobenzene	330	ND	U
87-86-5	Pentachlorophenol	330	ND	U
85-01-8	Phenanthrene	330	ND	U
120-12-7	Anthracene	330	ND	U
84-74-2	Di-n-butylphthalate	330	ND	U
206-44-0	Fluoranthene	330	ND	U
129-00-0	Pyrene	330	ND	U
85-68-7	Butylbenzylphthalate	330	ND	U
91-94-1	3,3'-Dichlorobenzidine	660	ND	U
56-55-3	Benzo(a)anthracene	330	ND	U
218-01-9	Chrysene	330	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	660	ND	U
117-84-0	Di-n-octylphthalate	330	ND	U
205-99-2	Benzo(b)fluoranthene	330	ND	U
207-08-9	Benzo(k)fluoranthene	330	ND	U
50-32-8	Benzo(a)pyrene	330	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	ND	U
53-70-3	Dibenz(a,h)anthracene	330	ND	U
191-24-2	Benzo(g,h,i)perylene	330	ND	U
100-51-6	Benzyl Alcohol	330	ND	U
65-85-0	Benzoic Acid	1700	ND	U
62-75-9	N-Nitrosodimethylamine	330	ND	U
103-33-3	Azobenzene	330	ND	U
92-87-5	Benzidine	1700	ND	U
62-53-3	Aniline	330	ND	U

(1) - Cannot be separated from Diphenylamine

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE
Matrix : SOIL

Anametrix ID : 9605098
Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 #	S8 #	TOT OUT
01	SBLKBS	87	92	82	81	81	102			0
02	1	0D	0D	0D	0D	0D	0D			0
03	SLCSDZZ	78	78	73	77	68	80			0
04	SLCSZZ	76	74	72	80	72	82			0
05										
06										
07										
08										
09										
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28										
29										
30										

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl-d14	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

LAB CONTROL SAMPLE FORM -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GASOLINE Lab File ID : MY13H2B1/NY13H2B1
Sample ID : SBLKbS
Matrix : SOIL
Date Sampled :
Date Extracted : 05/13/96
Prep. Batch ID : hdy13x42
Date Analyzed : 05/20/96
Instrument ID : msd4.i

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	2500	0.0	1800	72	35- 97
2-Chlorophenol	2500	0.0	1900	76	37- 99
1,4-Dichlorobenzene	1700	0.0	1200	70	41- 87
N-Nitroso-di-n-prop.(1)	1700	0.0	1200	70	34-102
1,2,4-Trichlorobenzene	1700	0.0	1300	76	41- 94
4-Chloro-3-Methylphenol	2500	0.0	2100	84	38-107
Acenaphthene	1700	0.0	1200	70	40- 97
4-Nitrophenol	2500	0.0	2500	100	24-106
2,4-Dinitrotoluene	1700	0.0	1400	82	35- 98
Pentachlorophenol	2500	0.0	2200	88	25-121
Pyrene	1700	0.0	1200	70	42-112

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2500	1700	68	6	30	35- 97
2-Chlorophenol	2500	1700	68	11	30	37- 99
1,4-Dichlorobenzene	1700	1100	65	7	30	41- 87
N-Nitroso-di-n-prop.(1)	1700	1100	65	7	30	34-102
1,2,4-Trichlorobenzene	1700	1300	76	0	30	41- 94
4-Chloro-3-Methylphenol	2500	2100	84	0	30	38-107
Acenaphthene	1700	1300	76	8	30	40- 97
4-Nitrophenol	2500	2600	104	4	30	24-106
2,4-Dinitrotoluene	1700	1500	88	7	30	35- 98
Pentachlorophenol	2500	2200	88	0	30	25-121
Pyrene	1700	1300	76	8	30	42-112

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

10309 9605098

CHAIN OF CUSTODY RECORD

(26)

A/E 4134

PETROTEK
P.O. Box 612317
San Jose, California 95161

JOB NO.	PROJECT NAME: Alaska Gasoline	NO. OF CONTAINERS	ANALYSIS: TPH-G	TPH-D	BTEX	8270	8010			SEALED?	REMARKS
LAB. NO.	SAMPLER (Signature) [signature]										
DATE 5-8-96	SAMPLE LOCATION/INFORMATION										
DTE / NO.											
(1) 5896 / 1	bottom of waste oil pit	1BL	X	X	X	+	X				slight oder
			AN/EN			Inchcape	AN/EN				

Inchape to do 8270 only
Bill + report to AN/EN
PO #4134
2 copies of report please
5/9/96 [initials]

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	LAB TO NOTE - Y/N → REMARKS
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB. BY (Signature)	
[signature]	5/8/96 7:00pm	[signature] AN/EN	Relinquished by [signature] 5/10/96 8:30; Rec'd By: [signature] 5/10/96 08:30

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9605098 **Client Project ID:** ALASKA GAS

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact ____ Broken ____	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 3° **Note**: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A

Samples

Chain of custody seal present for each container? Condition: Intact ____ Broken ____	YES	NO	(N/A)
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested? Condition of containers: Intact ✓ Broken ____ If NO, were samples transferred to proper container(s)? ____	(YES)	NO	
Were VOA containers received with zero headspace? If NO, was it noted on the chain of custody? ____	YES	NO	(N/A)
Were container labels complete? (ID, date, time, preservative)	(YES)	NO	N/A
Were samples properly preserved? If NO, was the preservative added at time of receipt? ____	YES	NO	(N/A)
pH check of samples required at time of receipt? If YES, pH checked and recorded by: ____	YES	(NO)	
Sufficient amount of sample received for methods requested? If NO, has the client or PM been notified? ____	(YES)	NO	
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	(N/A)

Chain of Custody

Chain of custody form received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample IDs on chain of custody form agree with labels?	(YES)	NO
Number of containers on chain agree with number received?	(YES)	NO
Analysis methods specified?	(YES)	NO
Sampling date and time indicated?	YES	(NO)
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO
Turnaround time? Standard ✓ Rush ____		

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: HH Date: 5/10/96 Project Manager: MW Date: 5-11-96

ENVIRONMENTAL PROTECTION

96 NOV -7 PM 1:52

KEY PERPLOT PLAN

AN / EN Inc

05/20/96

A/E4146

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID:	**ALASKA GASOLINE**
Date Received by Lab:	05/10/96
Total Number of Samples:	8
Sample Matrix:	**SOIL(7) & WATER(1)**

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline, Stoddard) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.

Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides - GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7,1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 11 pages.

Reviewed and Approved: Laurie Glantz-Murphy

Laurie Glantz-Murphy, Laboratory Manager

AN / EN Inc
Analytical & Environmental Chemistry

VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: **8010**
Laboratory Number: **4146-08**
Date Sampled: **05/09/96**
Date Received: **05/10/96**
Matrix: **Water**

Sample I.D.: **W.O. Pit**
Project: **Alaska Gas**
Dilution: **1**
Date Analyzed: **05/15/96**
Analyst: dm

Concentration of sample expressed as ug/L (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	**Chloromethane**	**0.8**		**0.5**
75-01-4	Vinyl chloride	ND		0.5
74-83-9	Bromomethane	ND		0.5
75-00-3	Chloroethane	ND		0.5
75-69-4	Trichlorofluoromethane	ND		0.5
75-35-4	1,1-Dichloroethene	ND		0.5
76-13-1	Trichlorotrifluoroethane	ND		0.5
75-09-2	Methylene chloride	ND		0.5
156-60-5	trans-1,2-Dichloroethene	ND		0.5
75-35-3	1,1-Dichloroethane	ND		0.5
156-69-4	cis-1,2-Dichloroethene	ND		0.5
67-66-3	Chloroform	ND		0.5
71-55-6	1,1,1-Trichloroethane	ND		0.5
56-23-5	Carbon tetrachloride	ND		0.5
107-06-2	1,2-Dichloroethane	ND		0.5
79-01-6	Trichloroethene	ND		0.5
78-87-5	1,2-Dichloropropane	ND		0.5
75-27-4	Bromodichloromethane	ND		0.5
10061-01-5	cis-1,3-Dichloropropene	ND		0.5
10061-02-6	trans-1,3-dichloropropene	ND		0.5
79-00-5	1,1,2-Trichloroethane	ND		0.5
127-18-4	Tetrachloroethene	ND		0.5
124-48-1	Chlorodibromomethane	ND		0.5
108-90-7	Chlorobenzene	ND		0.5
106-93-4	1,2-Dibromoethane (EDB)	ND		0.5
75-25-2	Bromoform	ND		0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.5
541-73-1	1,3-Dichlorobenzene	ND		0.5
106-46-7	1,4-Dichlorobenzene	ND		0.5
95-50-1	1,2-Dichlorobenzene	ND		0.5

Surrogates	Recovery	Limits
3-Chloro-1-propene	101%	80-120%
4-Chlorotoluene	99%	80-120%

PQL = Practical Quantitation Limit
ND = None Detected at or above the PQL

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VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: **8010**
Laboratory Number: **4146-08**
Date Sampled: **05/09/96**
Date Received: **05/10/96**
Matrix: **Water**

Sample I.D.: **W.O. Pit**
Project: **Alaska Gas**
Dilution: **1**
Date Analyzed: **05/15/96**
Analyst: dtj

Concentration of sample expressed as ug/L (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	**Chloromethane**	**0.8**		**0.5**
75-01-4	Vinyl chloride	ND		0.5
74-83-9	Bromomethane	ND		0.5
75-00-3	Chloroethane	ND		0.5
75-69-4	Trichlorofluoromethane	ND		0.5
75-35-4	1,1-Dichloroethene	ND		0.5
76-13-1	Trichlorotrifluoroethane	ND		0.5
75-09-2	Methylene chloride	ND		0.5
156-60-5	trans-1,2-Dichloroethene	ND		0.5
75-35-3	1,1-Dichloroethane	ND		0.5
156-69-4	cis-1,2-Dichloroethene	ND		0.5
67-66-3	Chloroform	ND		0.5
71-55-6	1,1,1-Trichloroethane	ND		0.5
56-23-5	Carbon tetrachloride	ND		0.5
107-06-2	1,2-Dichloroethane	ND		0.5
79-01-6	Trichloroethene	ND		0.5
78-87-5	1,2-Dichloropropane	ND		0.5
75-27-4	Bromodichloromethane	ND		0.5
10061-01-5	cis-1,3-Dichloropropene	ND		0.5
10061-02-6	trans-1,3-dichloropropene	ND		0.5
79-00-5	1,1,2-Trichloroethane	ND		0.5
127-18-4	Tetrachloroethene	ND		0.5
124-48-1	Chlorodibromomethane	ND		0.5
108-90-7	Chlorobenzene	ND		0.5
106-93-4	1,2-Dibromoethane (EDB)	ND		0.5
75-25-2	Bromoform	ND		0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.5
541-73-1	1,3-Dichlorobenzene	ND		0.5
106-46-7	1,4-Dichlorobenzene	ND		0.5
95-50-1	1,2-Dichlorobenzene	ND		0.5

Surrogates	Recovery	Limits
3-Chloro-1-propene	101%	80-120%
4-Chlorotoluene	99%	80-120%

PQL = Practical Quantitation Limit
ND = None Detected at or above the PQL

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VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: **8010**
Laboratory Number: **BLK0515A**
Date Sampled: **N/A**
Date Received: **N/A**
Matrix: **Water**

Sample I.D.: **Method Blank**
Project: **Alaska Gas**
Dilution: **1**
Date Analyzed: **05/15/96**
Analyst: dri

Concentration of sample expressed as ug/L (ppb).

CAS#	Analyte	Conc.	Q	PQL
74-87-3	Chloromethane	ND		0.5
75-01-4	Vinyl chloride	ND		0.5
74-83-9	Bromomethane	ND		0.5
75-00-3	Chloroethane	ND		0.5
75-69-4	Trichlorofluoromethane	ND		0.5
75-35-4	1,1-Dichloroethene	ND		0.5
76-13-1	Trichlorotrifluoroethane	ND		0.5
75-09-2	Methylene chloride	ND		0.5
156-60-5	trans-1,2-Dichloroethene	ND		0.5
75-35-3	1,1-Dichloroethane	ND		0.5
156-69-4	cis-1,2-Dichloroethene	ND		0.5
67-66-3	Chloroform	ND		0.5
71-55-6	1,1,1-Trichloroethane	ND		0.5
56-23-5	Carbon tetrachloride	ND		0.5
107-06-2	1,2-Dichloroethane	ND		0.5
79-01-6	Trichloroethene	ND		0.5
78-87-5	1,2-Dichloropropane	ND		0.5
75-27-4	Bromodichloromethane	ND		0.5
10061-01-5	cis-1,3-Dichloropropene	ND		0.5
10061-02-6	trans-1,3-dichloropropene	ND		0.5
79-00-5	1,1,2-Trichloroethane	ND		0.5
127-18-4	Tetrachloroethene	ND		0.5
124-48-1	Chlorodibromomethane	ND		0.5
108-90-7	Chlorobenzene	ND		0.5
106-93-4	1,2-Dibromoethane (EDB)	ND		0.5
75-25-2	Bromoform	ND		0.5
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.5
541-73-1	1,3-Dichlorobenzene	ND		0.5
106-46-7	1,4-Dichlorobenzene	ND		0.5
95-50-1	1,2-Dichlorobenzene	ND		0.5

Surrogates	Recovery	Limits
3-Chloro-1-propene	100%	80-120%
4-Chlorotoluene	97%	80-120%

PQL = Practical Quantitation Limit
ND = None Detected at or above the PQL

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LABORATORY CONTROL SAMPLE

EPA Method: **8010**
Laboratory Number: **LCS0515A**
Matrix: **Water**

Date Analyzed: **05/15/96**
Analyst:

Concentration expressed as ug/L (ppb).

COMPOUND	Spike Added	LCS Conc	LCS Rec	%Rec Limits
1,1-Dichloroethene	10	9.6	96%	75-125
1,2-Dichloroethane	10	9.7	97%	75-125
Trichloroethene	10	9.5	95%	75-125
Tetrachloroethene	10	10.6	106%	75-125
Chlorobenzene	10	9 2	92%	75-125
Surrogates				
3-Chloro-1-propene			96%	80-120
4-Chlorotoluene			97%	80-120

* = Values outside of QC limits.

Spike Recovery:0 out of 5 outside limits

QC-LAB CONTROL SAMPLE

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VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.. **ALASKA GASOLINE**

Matrix: **Soil**
Date Received 05/10/96
Analyst JM

Sample I D .	Dispenser #1	Dispenser #2	Dispenser #3	Dispenser #5	Dispenser #6	Trench #7	Trench #8	PQL ppm
Methyl-tert-Butyl Ether	<40	<20	<8	<16	ND	<8	<5	10
Benzene	63	<10	<4	<8	ND	<4	<2	05
Toluene	370	20	<4	28	ND	5 7	5 1	05
Ethylbenzene	120	9.7	<4	12	ND	<4	<2	05
Xylenes-Total	680	280	20	200	ND	140	20	05
TPH-Gasoline	6800	3700	1500	2600	ND	2100	1400	5 0

Surrogate Recovery								Limits
a,a,a-TFT(FID)	92%	89%	97%	89%	97%	95%	87%	64-129
4-BFB(FID)	98%	93%	93%	94%	101%	97%	95%	55-151
4-BFB(PID)	104%	105%	104%	101%	107%	110%	101%	68-137
Laboratory I.D.	4146-01	4146-02	4146-03	4146-04	4146-05	4146-06	4146-07	
Batch I D	0514-06	0514-07	0514-08	0514-09	0513-22	0514-10	0513-28	
Date Sampled	05/09/96	05/09/96	05/09/96	05/09/96	05/09/96	05/09/96	05/09/96	
Date Analyzed.	05/14/96	05/14/96	05/14/96	05/14/96	05/14/96	05/14/96	05/14/96	

Concentration of samples expressed as ug/g (ppm).
PQL = Practical Quantitation Limit
ND = Not Detected at or above the PQL.
< = Increased PQL due to sample dilution.

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed , July 1992 Method 5030 (Purge & Trap) is used for sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual Last Revision October 1989 Method 5030 is used for sample preparation/introduction

SAMPLE RESULTS

AN / EN Inc

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0513-01.D
Date Aquired: 05/13/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	105%	73-126
4-BFB(FID)	110%	67-146
4-BFB(PID)	104%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed , July 1992 Method 5030 (Purge & Tr is used for the sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

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Environmental Chemistry

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0514-01.D
Date Aquired: 05/14/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	100%	73-126
4-BFB(FID)	107%	67-146
4-BFB(PID)	106%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed July 1992 Method 5030 (Purge & Tr is used for the sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Aquired: 05/13/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	105%	82-113
Benzene	20.	20.	102%	84-113
Toluene	20.	21.	105%	90-110
Ethylbenzene	20.	21.	103%	89-112
m,p-Xylenes	20	20.	102%	88-113
o-Xylene	20.	21.	105%	88-114
TPH-Gasoline	1,250.	1,360.	109%	77-130

Surrogates	LSC-8020M	Batch ID:	0513-04	
a,a,a-TFT-FID			100%	73-126
4-BFB-FID			104%	67-146
4-BFB-PID			105%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0513-05	
a,a,a-TFT-FID			92%	73-126
4-BFB-FID			125%	67-146
4-BFB-PID			108%	82-119

* = Values outside of QC limits.
LCS Recovery: 0 out of 7 outside limits.

LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Aquired: 05/14/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	38.	94%	82-113
Benzene	20.	19	97%	84-113
Toluene	20.	20.	100%	90-110
Ethylbenzene	20.	20.	101%	89-112
m,p-Xylenes	20.	20.	101%	88-113
o-Xylene	20.	21.	104%	88-114
TPH-Gasoline	1,250.	1,360.	109%	77-130

Surrogates	LSC-8020M	Batch ID:	0514-04	
a,a,a-TFT-FID			96%	73-126
4-BFB-FID			104%	67-146
4-BFB-PID			107%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0514-05	
a,a,a-TFT-FID			91%	73-126
4-BFB-FID			125%	67-146
4-BFB-PID			107%	82-119

* = Values outside of QC limits.
LCS Recovery: 0 out of 7 outside limits.

AN / EN Inc

VOLATILE AROMATICS - MATRIX SPIKE REPORT - SOIL

Client Project/I.D.: **ALASKA GASOLINE**
Laboratory I.D.: 4146-05S MS/MSD

Batch I.D.: 0513-26.D

Concentration of sample and spikes expressed as ug/g (ppm).

ANALYTE	Sample Conc.	Spike Added MS	Spike Added MSD	Spiked Sample Conc. MS	Spiked Sample Conc. MDS	%Rec. MS	%Rec. MDS	RPD	%Rec. Limits	RPD Limits
Benzene	0 00	0.37	0.38	0.35	0.37	95%	98%	-3%	61-129	16
Toluene	0.00	0 37	0.38	0.37	0.39	100%	102%	-3%	61-123	18
Ethylbenzene	0.01	0.37	0.38	0 37	0.39	95%	98%	-2%	63-120	16
m,p-Xylenes	0.01	0.37	0.38	0.38	0.39	99%	100%	-1%	60-121	17
o-Xylene	0.01	0 37	0.38	0.38	0.40	99%	101%	-2%	73-121	11
Surrogates										
a,a,a-TFT(FID)	97%			92%	91%				64-129	
4-BFB(FID)	101%			100%	99%				55-151	
4-BFB(PID)	107%			110%	109%				68-137	

* = Values outside of QC limits.
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits.

Methanol extraction.

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QC-MATRIX SPIKE/DUPLICATE

CHAIN OF CUSTODY RECORD

AE4146

CHAIN OF CUSTODY RECORD

JOB NO.	PROJECT NAME: Alaska Gas		NO. OF CONTAINERS	ANALYSIS: TPH-G	TPH-D	BTEX	8270	8010		SEALED?	PETROTEK P.O. Box 612317 San Jose, California 95161
LAB. NO.	SAMPLER (Signature): Ral L. Ott										
DATE 5-9-96	SAMPLE LOCATION/INFORMATION										
DTF NO.											REMARKS
5-9-96 #1	Dispenser #1	-01	1	✓		✓					Some Odor
5-9-96 #2	Dispenser #2	-02	1	✓		✓					Some Odor
5-9-96 #3	Dispenser #3	-03	1	✓		✓					No Odor
5-9-96 #5	Dispenser #5	-04	1	✓		✓					Some Odor
5-9-96 #6	Dispenser #6	-05	1	✓		✓					No Odor
5-9-96 #7	Trench #7	-06	1	✓		✓					Some Odor
5-9-96 #8	Trench #8	-01	1	✓		✓					Some Odor
5-9-96 9	waste oil pit	1 liter	1	✓	✓	✓	✓	✓			
" 10	" dup	1 liter	1	✓	✓	✓	✓	✓			Only 1 sample for 8270 (BTEX-GAS & Diesel was previously run on this sample. See A/E 4131
" 11	"	06 40ml VOH	1	✓	✓	✓	✓	✓			
" 12	"		1	✓	✓	✓	✓	✓			
" 13	"		1	✓	✓	✓	✓	✓			

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	LAB TO NOTE - Y/N → REMARKS
	5-10-96 8:20		Include to doc 8270 only
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	Bill & report to HW/EN, Inc
	5/10/96 8:30		PO # 4146 2 copies of report please
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB. BY (Signature)	5/10/96
		5/10/96 0830	

Inchcape Testing Services
Environmental Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605100
Date Received : 05/10/96
Project ID : ALASKA GAS
Purchase Order: 4146

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9605100- 1	9,10

This report is organized in sections according to the specific Inchcape laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Inchcape cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Inchcape is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Project Manager

5/24/96
Date

This report consists of 19 pages.

GC/MS REPORT DESCRIPTION

Organic Analysis Data Sheets (OADS)
OADS forms contain tabulated results for target compounds. The OADS are grouped by method and within each method, organized sequentially in order of increasing Inchcape Testing Services ID Number.

Tentatively Identified Compounds (TICs)
TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted to Inchcape Testing Services. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)
SRS forms contain quality assurance data. An SRS form will be printed for each method. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*" and the total number of surrogates outside the limits will be listed in the column labeled "Total Out "

Matrix Spike Recovery, Laboratory Control Sample Forms
These forms contain quality assurance data They summarize percent recovery and relative percent difference information for matrix spikes, laboratory control samples and their duplicates This information is a statement of accuracy and precision Any percent recovery or relative percent difference outside established limits will be flagged with an "*"

Qualifiers
Inchcape Testing Services uses several data qualifiers (Q) in its report forms These qualifiers give additional information on the compounds reported They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings

- **U** - Indicates that the compound was analyzed but not detected at or above the specified reporting limit
- **B** - Indicates that the compound was detected in the associated method blank
- **J** - Indicates that the compound was detected at an amount below the specified reporting limit Consequently, the amount should be considered an estimated value
- **E** - Indicates that the amount reported exceeded the linear range of the instrument calibration
- **D** - Indicates that the compound was detected in an analysis performed at a secondary dilution
- **A** - Indicates that the tentatively identified compound is a suspected aldol condensation product This is common in EPA Method 8270 analyses

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report form However, the report cover letter and report summary pages do display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., <u>not</u> corrected for method blank contamination

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605100
Date Received : 05/10/96
Project ID : ALASKA GAS
Purchase Order: 4146
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9605100- 1	9,10	WATER	05/09/96	8270

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. LAURIE MURPHY
AN/EN INC.
455 RESERVATION ROAD, SUITE G
MARINA, CA 93933

Workorder # : 9605100
Date Received : 05/10/96
Project ID : ALASKA GAS
Purchase Order: 4146
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- An internal standard area is outside of the QC limits for the EPA Method 8270B analysis of sample 9,10 RX. The sample was reanalyzed with similar results. Both analyses are reported.
- A surrogate recovery is outside of the QC limits for the EPA Method 8270B analysis of sample 9,10. The sample was reextracted outside of holding time and reanalyzed with similar results. Both analyses are reported.

Department Supervisor 5/24/96 Date

Chemist 6/24/96 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : 9,10
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/13/96
Amount Extracted : 1000 mL
Date Analyzed : 05/17/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605100-01
Lab File ID : MPY10001

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	10	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	10	ND	U
95-57-8	2-Chlorophenol	10	ND	U
541-73-1	1,3-Dichlorobenzene	10	ND	U
106-46-7	1,4-Dichlorobenzene	10	ND	U
95-50-1	1,2-Dichlorobenzene	10	ND	U
95-48-7	2-Methylphenol	10	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	ND	U
106-44-5	4-Methylphenol	10	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10	ND	U
67-72-1	Hexachloroethane	10	ND	U
98-95-3	Nitrobenzene	10	ND	U
78-59-1	Isophorone	10	ND	U
88-75-5	2-Nitrophenol	10	ND	U
105-67-9	2,4-Dimethylphenol	10	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10	ND	U
120-83-2	2,4-Dichlorophenol	10	ND	U
120-82-1	1,2,4-Trichlorobenzene	10	ND	U
91-20-3	Naphthalene	10	ND	U
106-47-8	4-Chloroaniline	10	ND	U
87-68-3	Hexachlorobutadiene	10	ND	U
59-50-7	4-Chloro-3-Methylphenol	10	ND	U
91-57-6	2-Methylnaphthalene	10	ND	U
77-47-4	Hexachlorocyclopentadiene	10	ND	U
88-06-2	2,4,6-Trichlorophenol	10	ND	U
95-95-4	2,4,5-Trichlorophenol	50	ND	U
91-58-7	2-Chloronaphthalene	10	ND	U
88-74-4	2-Nitroaniline	50	ND	U
131-11-3	Dimethylphthalate	10	ND	U
208-96-8	Acenaphthylene	10	ND	U
606-20-2	2,6-Dinitrotoluene	10	ND	U
99-09-2	3-Nitroaniline	50	ND	U
83-32-9	Acenaphthene	10	ND	U
51-28-5	2,4-Dinitrophenol	50	ND	U
100-02-7	4-Nitrophenol	50	ND	U
132-64-9	Dibenzofuran	10	ND	U
121-14-2	2,4-Dinitrotoluene	10	ND	U
84-66-2	Diethylphthalate	10	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10	ND	U
86-73-7	Fluorene	10	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : 9,10
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/13/96
Amount Extracted : 1000 mL
Date Analyzed : 05/17/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605100-01
Lab File ID : MPY10001

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	50	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50	ND	U
86-30-6	N-nitrosodiphenylamine (1)	10	ND	U
101-55-3	4-Bromophenyl-phenylether	10	ND	U
118-74-1	Hexachlorobenzene	10	ND	U
87-86-5	Pentachlorophenol	10	ND	U
85-01-8	Phenanthrene	10	ND	U
120-12-7	Anthracene	10	ND	U
84-74-2	Di-n-butylphthalate	10	ND	U
206-44-0	Fluoranthene	10	ND	U
129-00-0	Pyrene	10	ND	U
85-68-7	Butylbenzylphthalate	10	ND	U
91-94-1	3,3'-Dichlorobenzidine	20	ND	U
56-55-3	Benzo(a)anthracene	10	ND	U
218-01-9	Chrysene	10	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	ND	U
117-84-0	Di-n-octylphthalate	10	ND	U
205-99-2	Benzo(b)fluoranthene	10	ND	U
207-08-9	Benzo(k)fluoranthene	10	ND	U
50-32-8	Benzo(a)pyrene	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND	U
53-70-3	Dibenz(a,h)anthracene	10	ND	U
191-24-2	Benzo(g,h,i)perylene	10	ND	U
100-51-6	Benzyl Alcohol	10	ND	U
65-85-0	Benzoic Acid	50	ND	U
62-75-9	N-Nitrosodimethylamine	10	ND	U
103-33-3	Azobenzene	10	ND	U
92-87-5	Benzidine	50	ND	U
62-53-3	Aniline	10	ND	U

(1) - Cannot be separated from Diphenylamine

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : 9,10RX
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/20/96
Amount Extracted : 1000 mL
Date Analyzed : 05/23/96
Instrument ID : msd3.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605100-01
Lab File ID : MXY10001

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	10	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	10	ND	U
95-57-8	2-Chlorophenol	10	ND	U
541-73-1	1,3-Dichlorobenzene	10	ND	U
106-46-7	1,4-Dichlorobenzene	10	ND	U
95-50-1	1,2-Dichlorobenzene	10	ND	U
95-48-7	2-Methylphenol	10	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	ND	U
106-44-5	4-Methylphenol	10	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10	ND	U
67-72-1	Hexachloroethane	10	ND	U
98-95-3	Nitrobenzene	10	ND	U
78-59-1	Isophorone	10	ND	U
88-75-5	2-Nitrophenol	10	ND	U
105-67-9	2,4-Dimethylphenol	10	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10	ND	U
120-83-2	2,4-Dichlorophenol	10	ND	U
120-82-1	1,2,4-Trichlorobenzene	10	ND	U
91-20-3	Naphthalene	10	ND	U
106-47-8	4-Chloroaniline	10	ND	U
87-68-3	Hexachlorobutadiene	10	ND	U
59-50-7	4-Chloro-3-Methylphenol	10	ND	U
91-57-6	2-Methylnaphthalene	10	ND	U
77-47-4	Hexachlorocyclopentadiene	10	ND	U
88-06-2	2,4,6-Trichlorophenol	10	ND	U
95-95-4	2,4,5-Trichlorophenol	50	ND	U
91-58-7	2-Chloronaphthalene	10	ND	U
88-74-4	2-Nitroaniline	50	ND	U
131-11-3	Dimethylphthalate	10	ND	U
208-96-8	Acenaphthylene	10	ND	U
606-20-2	2,6-Dinitrotoluene	10	ND	U
99-09-2	3-Nitroaniline	50	ND	U
83-32-9	Acenaphthene	10	ND	U
51-28-5	2,4-Dinitrophenol	50	ND	U
100-02-7	4-Nitrophenol	50	ND	U
132-64-9	Dibenzofuran	10	ND	U
121-14-2	2,4-Dinitrotoluene	10	ND	U
84-66-2	Diethylphthalate	10	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10	ND	U
86-73-7	Fluorene	10	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : 9,10RX
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/20/96
Amount Extracted : 1000 mL
Date Analyzed : 05/23/96
Instrument ID : msd3.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605100-01
Lab File ID : MXY10001

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	50	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50	ND	U
86-30-6	N-nitrosodiphenylamine (1)	10	ND	U
101-55-3	4-Bromophenyl-phenylether	10	ND	U
118-74-1	Hexachlorobenzene	10	ND	U
87-86-5	Pentachlorophenol	10	ND	U
85-01-8	Phenanthrene	10	ND	U
120-12-7	Anthracene	10	ND	U
84-74-2	Di-n-butylphthalate	10	ND	U
206-44-0	Fluoranthene	10	ND	U
129-00-0	Pyrene	10	ND	U
85-68-7	Butylbenzylphthalate	10	ND	U
91-94-1	3,3'-Dichlorobenzidine	20	ND	U
56-55-3	Benzo(a)anthracene	10	ND	U
218-01-9	Chrysene	10	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	ND	U
117-84-0	Di-n-octylphthalate	10	ND	U
205-99-2	Benzo(b)fluoranthene	10	ND	U
207-08-9	Benzo(k)fluoranthene	10	ND	U
50-32-8	Benzo(a)pyrene	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND	U
53-70-3	Dibenz(a,h)anthracene	10	ND	U
191-24-2	Benzo(g,h,i)perylene	10	ND	U
100-51-6	Benzyl Alcohol	10	ND	U
65-85-0	Benzoic Acid	50	ND	U
62-75-9	N-Nitrosodimethylamine	10	ND	U
103-33-3	Azobenzene	10	ND	U
92-87-5	Benzidine	10	ND	U
4165-61-1	Aniline	10	ND	U

(1) - Cannot be separated from Diphenylamine

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : 9,10RXRE
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/20/96
Amount Extracted : 1000 mL
Date Analyzed : 05/23/96
Instrument ID : msd3.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605110-01
Lab File ID : MYY10001

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	10	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	10	ND	U
95-57-8	2-Chlorophenol	10	ND	U
541-73-1	1,3-Dichlorobenzene	10	ND	U
106-46-7	1,4-Dichlorobenzene	10	ND	U
95-50-1	1,2-Dichlorobenzene	10	ND	U
95-48-7	2-Methylphenol	10	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	ND	U
106-44-5	4-Methylphenol	10	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10	ND	U
67-72-1	Hexachloroethane	10	ND	U
98-95-3	Nitrobenzene	10	ND	U
78-59-1	Isophorone	10	ND	U
88-75-5	2-Nitrophenol	10	ND	U
105-67-9	2,4-Dimethylphenol	10	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10	ND	U
120-83-2	2,4-Dichlorophenol	10	ND	U
120-82-1	1,2,4-Trichlorobenzene	10	ND	U
91-20-3	Naphthalene	10	ND	U
106-47-8	4-Chloroaniline	10	ND	U
87-68-3	Hexachlorobutadiene	10	ND	U
59-50-7	4-Chloro-3-Methylphenol	10	ND	U
91-57-6	2-Methylnaphthalene	10	ND	U
77-47-4	Hexachlorocyclopentadiene	10	ND	U
88-06-2	2,4,6-Trichlorophenol	10	ND	U
95-95-4	2,4,5-Trichlorophenol	50	ND	U
91-58-7	2-Chloronaphthalene	10	ND	U
88-74-4	2-Nitroaniline	50	ND	U
131-11-3	Dimethylphthalate	10	ND	U
208-96-8	Acenaphthylene	10	ND	U
606-20-2	2,6-Dinitrotoluene	10	ND	U
99-09-2	3-Nitroaniline	50	ND	U
83-32-9	Acenaphthene	10	ND	U
51-28-5	2,4-Dinitrophenol	50	ND	U
100-02-7	4-Nitrophenol	50	ND	U
132-64-9	Dibenzofuran	10	ND	U
121-14-2	2,4-Dinitrotoluene	10	ND	U
84-66-2	Diethylphthalate	10	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10	ND	U
86-73-7	Fluorene	10	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : 9,10RXRE
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/20/96
Amount Extracted : 1000 mL
Date Analyzed : 05/23/96
Instrument ID : msd3.i
Volume of Final Extract: 1 ml

Anametrix ID : 9605110-01
Lab File ID : MYY10001

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	50	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50	ND	U
86-30-6	N-nitrosodiphenylamine (1)	10	ND	U
101-55-3	4-Bromophenyl-phenylether	10	ND	U
118-74-1	Hexachlorobenzene	10	ND	U
87-86-5	Pentachlorophenol	10	ND	U
85-01-8	Phenanthrene	10	ND	U
120-12-7	Anthracene	10	ND	U
84-74-2	Di-n-butylphthalate	10	ND	U
206-44-0	Fluoranthene	10	ND	U
129-00-0	Pyrene	10	ND	U
85-68-7	Butylbenzylphthalate	10	ND	U
91-94-1	3,3'-Dichlorobenzidine	20	ND	U
56-55-3	Benzo(a)anthracene	10	ND	U
218-01-9	Chrysene	10	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	ND	U
117-84-0	Di-n-octylphthalate	10	ND	U
205-99-2	Benzo(b)fluoranthene	10	ND	U
207-08-9	Benzo(k)fluoranthene	10	ND	U
50-32-8	Benzo(a)pyrene	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND	U
53-70-3	Dibenz(a,h)anthracene	10	ND	U
191-24-2	Benzo(g,h,i)perylene	10	ND	U
100-51-6	Benzyl Alcohol	10	ND	U
65-85-0	Benzoic Acid	50	ND	U
62-75-9	N-Nitrosodimethylamine	10	ND	U
103-33-3	Azobenzene	10	ND	U
92-87-5	Benzidine	10	ND	U
4165-61-1	Aniline	10	ND	U

(1) - Cannot be separated from Diphenylamine

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : SBLKKS
Matrix : WATER
Date Sampled :
Date Extracted : 05/13/96
Amount Extracted : 1000 mL
Date Analyzed : 05/17/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : BY1311B1
Lab File ID : BY1311B1

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	10	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	10	ND	U
95-57-8	2-Chlorophenol	10	ND	U
541-73-1	1,3-Dichlorobenzene	10	ND	U
106-46-7	1,4-Dichlorobenzene	10	ND	U
95-50-1	1,2-Dichlorobenzene	10	ND	U
95-48-7	2-Methylphenol	10	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	ND	U
106-44-5	4-Methylphenol	10	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10	ND	U
67-72-1	Hexachloroethane	10	ND	U
98-95-3	Nitrobenzene	10	ND	U
78-59-1	Isophorone	10	ND	U
88-75-5	2-Nitrophenol	10	ND	U
105-67-9	2,4-Dimethylphenol	10	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10	ND	U
120-83-2	2,4-Dichlorophenol	10	ND	U
120-82-1	1,2,4-Trichlorobenzene	10	ND	U
91-20-3	Naphthalene	10	ND	U
106-47-8	4-Chloroaniline	10	ND	U
87-68-3	Hexachlorobutadiene	10	ND	U
59-50-7	4-Chloro-3-Methylphenol	10	ND	U
91-57-6	2-Methylnaphthalene	10	ND	U
77-47-4	Hexachlorocyclopentadiene	10	ND	U
88-06-2	2,4,6-Trichlorophenol	10	ND	U
95-95-4	2,4,5-Trichlorophenol	50	ND	U
91-58-7	2-Chloronaphthalene	10	ND	U
88-74-4	2-Nitroaniline	50	ND	U
131-11-3	Dimethylphthalate	10	ND	U
208-96-8	Acenaphthylene	10	ND	U
606-20-2	2,6-Dinitrotoluene	10	ND	U
99-09-2	3-Nitroaniline	50	ND	U
83-32-9	Acenaphthene	10	ND	U
51-28-5	2,4-Dinitrophenol	50	ND	U
100-02-7	4-Nitrophenol	50	ND	U
132-64-9	Dibenzofuran	10	ND	U
121-14-2	2,4-Dinitrotoluene	10	ND	U
84-66-2	Diethylphthalate	10	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10	ND	U
86-73-7	Fluorene	10	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : SBLKKS
Matrix : WATER
Date Sampled :
Date Extracted : 05/13/96
Amount Extracted : 1000 mL
Date Analyzed : 05/17/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml

Anametrix ID : BY1311B1
Lab File ID : BY1311B1

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	50	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50	ND	U
86-30-6	N-nitrosodiphenylamine (1)	10	ND	U
101-55-3	4-Bromophenyl-phenylether	10	ND	U
118-74-1	Hexachlorobenzene	10	ND	U
87-86-5	Pentachlorophenol	10	ND	U
85-01-8	Phenanthrene	10	ND	U
120-12-7	Anthracene	10	ND	U
84-74-2	Di-n-butylphthalate	10	ND	U
206-44-0	Fluoranthene	10	ND	U
129-00-0	Pyrene	10	ND	U
85-68-7	Butylbenzylphthalate	10	ND	U
91-94-1	3,3'-Dichlorobenzidine	20	ND	U
56-55-3	Benzo(a)anthracene	10	ND	U
218-01-9	Chrysene	10	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	ND	U
117-84-0	Di-n-octylphthalate	10	ND	U
205-99-2	Benzo(b)fluoranthene	10	ND	U
207-08-9	Benzo(k)fluoranthene	10	ND	U
50-32-8	Benzo(a)pyrene	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND	U
53-70-3	Dibenz(a,h)anthracene	10	ND	U
191-24-2	Benzo(g,h,i)perylene	10	ND	U
100-51-6	Benzyl Alcohol	10	ND	U
65-85-0	Benzoic Acid	50	ND	U
62-75-9	N-Nitrosodimethylamine	10	ND	U
103-33-3	Azobenzene	10	ND	U
92-87-5	Benzidine	50	ND	U
62-53-3	Aniline	10	ND	U

(1) - Cannot be separated from Diphenylamine

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : SBLKK2
Matrix : WATER
Date Sampled :
Date Extracted : 05/20/96
Amount Extracted : 1000 mL
Date Analyzed : 05/23/96
Instrument ID : msd3.i
Volume of Final Extract: 1 ml

Anametrix ID : BY2011B1
Lab File ID : BY2011B1

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	10	ND	U
111-44-4	bis(-2-Chloroethyl)Ether	10	ND	U
95-57-8	2-Chlorophenol	10	ND	U
541-73-1	1,3-Dichlorobenzene	10	ND	U
106-46-7	1,4-Dichlorobenzene	10	ND	U
95-50-1	1,2-Dichlorobenzene	10	ND	U
95-48-7	2-Methylphenol	10	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	ND	U
106-44-5	4-Methylphenol	10	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10	ND	U
67-72-1	Hexachloroethane	10	ND	U
98-95-3	Nitrobenzene	10	ND	U
78-59-1	Isophorone	10	ND	U
88-75-5	2-Nitrophenol	10	ND	U
105-67-9	2,4-Dimethylphenol	10	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10	ND	U
120-83-2	2,4-Dichlorophenol	10	ND	U
120-82-1	1,2,4-Trichlorobenzene	10	ND	U
91-20-3	Naphthalene	10	ND	U
106-47-8	4-Chloroaniline	10	ND	U
87-68-3	Hexachlorobutadiene	10	ND	U
59-50-7	4-Chloro-3-Methylphenol	10	ND	U
91-57-6	2-Methylnaphthalene	10	ND	U
77-47-4	Hexachlorocyclopentadiene	10	ND	U
88-06-2	2,4,6-Trichlorophenol	10	ND	U
95-95-4	2,4,5-Trichlorophenol	50	ND	U
91-58-7	2-Chloronaphthalene	10	ND	U
88-74-4	2-Nitroaniline	50	ND	U
131-11-3	Dimethylphthalate	10	ND	U
208-96-8	Acenaphthylene	10	ND	U
606-20-2	2,6-Dinitrotoluene	10	ND	U
99-09-2	3-Nitroaniline	50	ND	U
83-32-9	Acenaphthene	10	ND	U
51-28-5	2,4-Dinitrophenol	50	ND	U
100-02-7	4-Nitrophenol	50	ND	U
132-64-9	Dibenzofuran	10	ND	U
121-14-2	2,4-Dinitrotoluene	10	ND	U
84-66-2	Diethylphthalate	10	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10	ND	U
86-73-7	Fluorene	10	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : SBLKK2
Matrix : WATER
Date Sampled :
Date Extracted : 05/20/96
Amount Extracted : 1000 mL
Date Analyzed : 05/23/96
Instrument ID : msd3.i
Volume of Final Extract: 1 ml

Anametrix ID : BY2011B1
Lab File ID : BY2011B1

% Moisture :
Dilution Factor : 1.0
Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	50	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50	ND	U
86-30-6	N-nitrosodiphenylamine (1)	10	ND	U
101-55-3	4-Bromophenyl-phenylether	10	ND	U
118-74-1	Hexachlorobenzene	10	ND	U
87-86-5	Pentachlorophenol	10	ND	U
85-01-8	Phenanthrene	10	ND	U
120-12-7	Anthracene	10	ND	U
84-74-2	Di-n-butylphthalate	10	ND	U
206-44-0	Fluoranthene	10	ND	U
129-00-0	Pyrene	10	ND	U
85-68-7	Butylbenzylphthalate	10	ND	U
91-94-1	3,3'-Dichlorobenzidine	20	ND	U
56-55-3	Benzo(a)anthracene	10	ND	U
218-01-9	Chrysene	10	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	20	ND	U
117-84-0	Di-n-octylphthalate	10	ND	U
205-99-2	Benzo(b)fluoranthene	10	ND	U
207-08-9	Benzo(k)fluoranthene	10	ND	U
50-32-8	Benzo(a)pyrene	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND	U
53-70-3	Dibenz(a,h)anthracene	10	ND	U
191-24-2	Benzo(g,h,i)perylene	10	ND	U
100-51-6	Benzyl Alcohol	10	ND	U
65-85-0	Benzoic Acid	50	ND	U
62-75-9	N-Nitrosodimethylamine	10	ND	U
103-33-3	Azobenzene	10	ND	U
92-87-5	Benzidine	10	ND	U
4165-61-1	Aniline	10	ND	U

(1) - Cannot be separated from Diphenylamine

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Matrix : WATER

Anametrix ID : 9605100

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 #	S8 #	TOT OUT
01	SBLKKS	70	81	63	76	70	93			0
02	SLCSJ1	72	77	61	73	70	87			0
03	SLCSD2Q	75	77	63	75	71	93			0
04	9,10	72	84	20*	79	72	81			1
05	SBLKK2	86	82	77	78	74	81			0
06	SLCSKB	86	83	77	79	78	83			0
07	SLCSD3A	84	82	75	76	73	82			0
08	9,10RX	83	80	30*	76	70	77			1
09	9,10RXRE	82	82	33	77	70	76			0
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl-d14	(33-141)
S4 (PHL)	= Phenol-d5	(10- 94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

LAB CONTROL SAMPLE FORM -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : SBLKKS
Matrix : WATER
Date Sampled :
Date Extracted : 05/13/96
Prep. Batch ID : 1dy13x21
Date Analyzed : 05/17/96
Instrument ID : msd4.i

Lab File ID : MY1311B1/NY1311B1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	75	0.0	52	69	22- 96
2-Chlorophenol	75	0.0	58	77	21- 96
1,4-Dichlorobenzene	50	0.0	35	70	17- 88
N-Nitroso-di-n-prop.(1)	50	0.0	32	64	19- 98
1,2,4-Trichlorobenzene	50	0.0	37	74	18- 92
4-Chloro-3-Methylphenol	75	0.0	48	64	21-103
Acenaphthene	50	0.0	39	78	24-132
4-Nitrophenol	75	0.0	70	93	22-132
2,4-Dinitrotoluene	50	0.0	36	72	30-114
Pentachlorophenol	75	0.0	58	77	16-141
Pyrene	50	0.0	34	68	30-133

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	55	73	6	30	22- 96
2-Chlorophenol	75	58	77	0	30	21- 96
1,4-Dichlorobenzene	50	37	74	6	30	17- 88
N-Nitroso-di-n-prop.(1)	50	34	68	6	30	19- 98
1,2,4-Trichlorobenzene	50	39	78	5	30	18- 92
4-Chloro-3-Methylphenol	75	50	67	4	30	21-103
Acenaphthene	50	40	80	2	30	24-132
4-Nitrophenol	75	64	85	9	30	22-132
2,4-Dinitrotoluene	50	40	80	10	30	30-114
Pentachlorophenol	75	67	89	14	30	16-141
Pyrene	50	38	76	11	30	30-133

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

LAB CONTROL SAMPLE FORM -- EPA METHOD 8270B
INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES
(408)432-8192

Project ID : ALASKA GAS
Sample ID : SBLKK2
Matrix : WATER
Date Sampled :
Date Extracted : 05/20/96
Prep. Batch ID : 1sy20x21
Date Analyzed : 05/23/96
Instrument ID : msd3.i

Lab File ID : MY2011B1/NY2011B1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	150	0.0	59	39	22- 96
2-Chlorophenol	150	0.0	58	39	21- 96
1,4-Dichlorobenzene	100	0.0	40	40	17- 88
N-Nitroso-di-n-prop.(1)	100	0.0	38	38	19- 98
1,2,4-Trichlorobenzene	100	0.0	44	44	18- 92
4-Chloro-3-Methylphenol	150	0.0	66	44	21-103
Acenaphthene	100	0.0	44	44	24-132
4-Nitrophenol	150	0.0	78	52	22-122
2,4-Dinitrotoluene	100	0.0	48	48	30-114
Pentachlorophenol	150	0.0	72	48	16-141
Pyrene	100	0.0	42	42	30-133

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	150	57	38	2	30	22- 96
2-Chlorophenol	150	56	37	5	30	21- 96
1,4-Dichlorobenzene	100	38	38	5	30	17- 88
N-Nitroso-di-n-prop.(1)	100	37	37	3	30	19- 98
1,2,4-Trichlorobenzene	100	43	43	2	30	18- 92
4-Chloro-3-Methylphenol	150	66	44	0	30	21-103
Acenaphthene	100	43	43	2	30	24-132
4-Nitrophenol	150	79	53	2	30	22-122
2,4-Dinitrotoluene	100	47	47	2	30	30-114
Pentachlorophenol	150	70	47	2	30	16-141
Pyrene	100	42	42	0	30	30-133

(1) N-Nitroso-di-n-propylamine
Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

10311 9605100 (10/01) A/E4146

CHAIN OF CUSTODY RECORD

PETROTEK
P.O. Box 612317
San Jose, California 95161

JOB NO.:
PROJECT NAME: Alaska Gas
LAB NO.:
SAMPLER (Signature): [signature]
DATE: 5-9-96

DTE	NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	TPH-G	TPH-D	BTEX	8270	8010			SEALED?	REMARKS
5-9-96	#1	Dispenser #1	1	✓		✓						Some Odor
5-9-96	#2	Dispenser #2	1	✓		✓						Some Odor
5-9-96	#3	Dispenser #3	1	✓		✓						No Odor
5-9-96	#5	Dispenser #5	1	✓		✓						Some Odor
5-9-96	#6	Dispenser #6	1	✓		✓						No Odor
5-9-96	#7	Trench #7	1	✓		✓						Some Odor
5-9-96	#8	Trench #8	1	✓		✓						Some Odor
5-9-96	9	waste oil pit 1 liter	1	✓	✓	✓	✓	✓				
"	10	" dup 1 liter	1	✓	✓	✓	✓	✓				Only 1 sample for 8270
"	11	" 40ml VOA	1	✓	✓	✓	✓	✓				
"	12	" ↓	1	✓	✓	✓	✓	✓				
"	13	"	1	✓	✓	✓	✓	✓				

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	5-10-96 8:20	[signature] AW/EN
[signature]	5/10/96 8:30	
		RECEIVED FOR LAB. BY (Signature): [signature] 5/10/96 0830

LAB TO NOTE - Y/N → REMARKS

Inchcape to due 8270 only
Bill & report to AW/EN, Inc
PO#4146 2 copies of report please
5/10/96 [initials]

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9605100 **Client Project ID:** ALASKA GAS

Cooler

Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? Condition: Intact Broken	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 3° Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A

Samples

Chain of custody seal present for each container? Condition: Intact Broken	YES	NO	(N/A)
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested? Condition of containers: Intact ✓ Broken ____ If NO, were samples transferred to proper container(s)?	(YES)	NO	
Were VOA containers received with zero headspace? If NO, was it noted on the chain of custody?	YES	NO	(N/A)
Were container labels complete? (ID, date, time, preservative)	(YES)	NO	N/A
Were samples properly preserved? If NO, was the preservative added at time of receipt?	YES	NO	(N/A)
pH check of samples required at time of receipt? If YES, pH checked and recorded by:	YES	(NO)	
Sufficient amount of sample received for methods requested? If NO, has the client or PM been notified?	(YES)	NO	
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	(N/A)

Chain of Custody

Chain of custody form received with samples?	(YES)	NO
Has it been filled out completely and in ink?	(YES)	NO
Sample IDs on chain of custody form agree with labels?	(YES)	NO
Number of containers on chain agree with number received?	(YES)	NO
Analysis methods specified?	(YES)	NO
Sampling date and time indicated?	YES	(NO)
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date?	(YES)	NO
Turnaround time? Standard ✓ Rush		

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: HH Date: 5/10/96 Project Manager: W Date: 5-13-96

AN / EN Inc

Analytical & Environmental Chemistry

05/11/96

A/E4174

DALE McANALLY
PETROTEK
925 COMMERCIAL AVE
SAN JOSE, CA 95112

This is the **CERTIFICATE OF ANALYSIS** for the following samples as received.

Client Project ID:	**ALASKA GASOLINE**
Date Received by Lab:	05/21/96
Total Number of Samples:	1
Sample Matrix:	**WATER**

Volatile Organics are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8010 (Halogenated Volatile Organics-GC/ELCD) or Method 8240 (Volatile Organics-GC/MS) is used for the analysis.

BTEX is analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. Method 5030 (Purge and Trap) is used for the sample preparation/introduction. Method 8020 (Aromatic Volatile Organics) is used for the analysis.

Total Volatile Petroleum Hydrocarbons (Gasoline, Stoddard are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. Method 5030 (Purge and Trap) is used for the sample preparation/introduction.

Total Extractable Petroleum Hydrocarbons (Diesel, Oil, Kerosene, Stoddard, etc.) are analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Field Manual, Last Revision October 1989. EPA Method 3550-sonication (soil) or EPA Method 3510-separatory funnel liquid-liquid (water) is used for sample extraction/preparation.

Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides - GC-ECD/ECD) is used for the analysis.

AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7,1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 5 pages.

Reviewed and Approved: Laurie Glantz-Murphy

Laurie Glantz-Murphy, Laboratory Manager

AN / EN Inc
Analytical Environmental Chemistry

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Client Project / I.D.: **ALASKA GASOLINE**

Laboratory I.D.:	4174-01W	Sample I.D.:	**TANK PIT WATER**
Batch I.D.:	0522-19.D		
Date Sampled:	05/20/96	Date Analyzed:	05/08/96
Date Received:	05/21/96	Dilution:	25
Matrix:	**Water**	Analyst:	

Concentration of sample expressed as ug/L (ppb)

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	66. *	25.
Benzene	100.	13.
Toluene	60.	13.
Ethylbenzene	ND	13.
Xylenes-Total	560.	13.
TPH-Gasoline	2,800.	1,250.

PQL = Practical Quantitation Limit.
ND = Not Detected at or above the PQL.

* Has not been confirmed using GC/MS.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	92%	64-129
4-BFB(FID)	95%	55-151
4-BFB(PID)	100%	68-137

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed., July 1992 Method 5030 (Purge & Trap) is used for sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

AN / EN Inc

VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID

Laboratory I.D.: **INSTRUMENT BLANK**

Batch I.D.: 0522-01.D
Date Aquired: 05/08/96

Concentration of blank expressed as ug/L (ppb).

Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

PQL = Practical Quantitation Limit.
ND = None Detected at or above the PQL.

Surrogates	Recovery	Limits
a,a,a-TFT(FID)	104%	73-126
4-BFB(FID)	106%	67-146
4-BFB(PID)	101%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste,(SW846), 3rd Ed. July 1992 Method 5030 (Purge & Tr is used for the sample preparation/introduction Method 8020 (Aromatic Volatile Organics) is used for the analysis
Total Volatile Petroleum Hydrocarbons (as Gasoline) is analyzed in accordance with the California State Water Resources Control Board Leaking Underground Fuel Tank (LUFT) Manual, Last Revision October 1989 Method 5030 is used for sample preparation/introduction

455 RESERVATION ROAD, SUITE G • MARINA, CA 93933 • (408) 883-0123 • FAX (408) 883-0122

QC - BLANK

LABORATORY CONTROL SAMPLES

Method: **VOLATILE AROMATICS AND TPH AS GASOLINE BY GC/PID-FID**

Date Aquired: 05/08/96

Expressed as mass (ng).

Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	40.	99%	82-113
Benzene	20.	19.	96%	84-113
Toluene	20.	21.	103%	90-110
Ethylbenzene	20.	19	97%	89-112
m,p-Xylenes	20.	20	100%	88-113
o-Xylene	20.	20.	101%	88-114
TPH-Gasoline	1,250.	1,268.	101%	77-130

Surrogates	LSC-8020M	Batch ID:	0522-06	
a,a,a-TFT-FID			100%	73-126
4-BFB-FID			102%	67-146
4-BFB-PID			101%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0522-07	
a,a,a-TFT-FID			90%	73-126
4-BFB-FID			121%	67-146
4-BFB-PID			105%	82-119

* = Values outside of QC limits.

LCS Recovery: 0 out of 7 outside limits.

CHAIN OF CUSTODY RECORD A/E 4174

JOB NO.

LAB. NO.

DATE 5/20/96

PROJECT NAME ALASKA GASOLINE

SAMPLER (Signature) FRED NAMKUNG

DTE	NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	ANALYSIS TPH-G	TPH-D	BTEX					SEALED?	REMARKS
		TANK PIT (WATER)	3	X		X						

PETROTEK
P.O. Box 612817
San Jose, California 95161

CHAIN OF CUSTODY RECORD

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Bob Price	5-21-96 15:00	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB. BY (Signature)

LAB TO NOTE - Y/N → REMARKS

CHAIN OF CUSTODY RECORD

CHAIN OF CUSTODY RECORD

JOB NO.	PROJECT NAME: ALASKA GASOLINE	NO. OF CONTAINERS	ANALYSIS: TPH-G	TPH-D	BTEX					SEALED?	REMARKS
LAB. NO.	SAMPLER (Signature): FRED NADLEMAN										
DATE: 5/20/96	SAMPLE LOCATION/INFORMATION										
DTF NO.											
	TANK PIT (WATER)	3	X		X						

PETROTEK
P.O. Box 612317
San Jose, California 95161

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	LAB TO NOTE - Y/N → REMARKS
Bob Price	5-21-96 15:00	Stanley Murphy	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB BY (Signature)	

KEYPEN PLOT PLAN ALASKA GAS

Inchcape Testing Services
Environmental Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. NICOLE MEEKS
PETROTEK
925 COMMERCIAL STREET
SAN JOSE, CA 95112

Workorder # : 9609038
Date Received : 09/05/96
Project ID : 965047
Purchase Order: N/A

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9609038- 1	STOCK 1
9609038- 2	STOCK 2

This report is organized in sections according to the specific Inchcape laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Inchcape cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Inchcape is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Project Manager

9/18/96
Date

This report consists of 8 pages.

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. NICOLE MEEKS
PETROTEK
925 COMMERCIAL STREET
SAN JOSE, CA 95112

Workorder # : 9609038
Date Received : 09/05/96
Project ID : 965047
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9609038- 1	STOCK 1	SOIL	09/05/96	6010
9609038- 2	STOCK 2	SOIL	09/05/96	6010

REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. NICOLE MEEKS
PETROTEK
925 COMMERCIAL STREET
SAN JOSE, CA 95112

Workorder # : 9609038
Date Received : 09/05/96
Project ID : 965047
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Mona Kamel for 09/13/96
Department Supervisor Date

Stephen Carroll 9/12/96
Chemist Date

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Lead-6010A**
Client Project Number: **965047**
Matrix - Units: **SOIL - mg/Kg**

SDG #: **N/A**
Prep. Batch: **13756**
Analyst:
Supervisor: MH

ITS-SJ Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9609038-01	STOCK 1	3050A	ICP2	09/05/96	09/06/96	09/09/96	1	4.0	**56.3**	
9609038-02	STOCK 2	3050A	ICP2	09/05/96	09/06/96	09/09/96	1	4.0	**87.5**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192

METHOD BLANK REPORT

ITS-SJ Sample ID: **BS066SE**
Client Sample ID: **N/A**
ITS-SJ WO #: **9609038**
Client Project Number: **965047**
Matrix: **SOIL**

SDG #: **N/A**
Prep. Batch: **13756**
Analyst: SC
Supervisor: MK

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Lead	3050A	6010A	ICP2	09/06/96	09/09/96	1	mg/Kg	4.0	**ND**	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

ITS-SJ Sample ID: **LS066SE**
Client Sample ID: **N/A**
ITS-SJ WO #: **9609038**
Client Project Number: **965047**
Matrix: **SOIL**

SDG #: **N/A**
Prep. Batch: **13756**
Analyst: PC
Supervisor: MK

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Lead	3050A	6010A	ICP2	09/06/96	09/09/96	1	mg/Kg	50.0	49.7	99.4	

COMMENTS:

CHAIN OF CUSTODY RECORD 9609038 (53)

CHAIN OF CUSTODY RECORD

JOB NO.	PROJECT NAME
965047	ALASKA
LAB. NO.	SAMPLER (Signature)
DATE 9/5/96	SAMPLE LOCATION/INFORMATION

PETROTEK
P.O. Box 612317
San Jose, California 95161

DTF NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	ANALYSIS: TPH-G	TPH-D	BTEX	TOTAL LEAD				SEALED?	REMARKS
(1)	STOCK PILE (SMALL) SOIL	1				X					
(2)	STOCK PILE (SMALL) SOIL	1				X					

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
[signature]	9/5/1200	Laura Olson
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Laura Olson	9-5-96 1324	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB BY (Signature)
		[signature] 9-5-96 1324

LAB TO NOTE - Y/N → REMARKS

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9609038	*Client Project ID:* ALASKA 965047	*Quote Number:*

Cooler			
Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? *Condition*: Intact ☐ Broken ☐	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 3°C **Note**: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A
Samples			
Chain of custody seal present for each container? *Condition*: Intact ☐ Broken ☐	YES	NO	(N/A)
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested? *Condition of containers*: Intact (✓) Broken ☐ If NO, were samples transferred to proper container(s)? Yes ☐ No ☐	(YES)	NO	
Were VOA containers received with zero headspace? If NO, were bubbles < 6 mm? Yes ☐ No ☐	YES	NO	(N/A)
Were container labels complete? (ID, date, time, preservative)	(YES)	NO	N/A
Were samples properly preserved? If NO, was the preservative added at time of receipt? Yes ☐ No ☐	YES	NO	(N/A)
pH check of samples required at time of receipt? If YES, pH checked and recorded by:	YES	(NO)	
Sufficient amount of sample received for methods requested? If NO, has the client or PM been notified? Yes ☐ No ☐	(YES)	NO	
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	(N/A)
Chain of Custody			
Chain of custody form received with samples?	(YES)		NO
Has it been filled out completely and in ink?	(YES)		NO
Sample IDs on chain of custody form agree with labels?	(YES)		NO
Number of containers on chain agree with number received?	(YES)		NO
Analysis methods specified?	(YES)		NO
Sampling date and time indicated?	(YES)		NO
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date? Yes (✓) No ☐	(YES)		NO
Turnaround time? Standard (✓) Rush ☐			

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: FAB Date: 9.05-96 Project Manager: [signature] Date: 9/18/96

KEY PER PLOT PLAN

ENVIRONMENTAL PROTECTION

96 NOV -7 PM 1:52

Inchcape Testing Services
Environmental Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

MS. NICOLE MEEKS
PETROTEK
925 COMMERCIAL STREET
SAN JOSE, CA 95112

Workorder # : 9610066
Date Received : 10/03/96
Project ID : 965047
Purchase Order: N/A

The following samples were received at Inchcape for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9610066- 1	STOCPLE1
9610066- 2	STOCPLE2

This report is organized in sections according to the specific Inchcape laboratory group which performed the analysis(es) and generated the data.

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Inchcape is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Project Manager

10/15/96
Date

This report consists of 11 pages.

INCHCAPE TESTING SERVICES, SAN JOSE LABORATORIES
REPORT DESCRIPTION - INORGANICS

Analytical Data Report (ADR)

The ADR contains tabulated results for inorganic analytes. All field samples, QC samples and blanks were prepared and analyzed according to procedures in the following references:

- "Test Methods for Evaluating Solid Waste," SW-846, EPA, 3rd Edition, 1994.
- "Methods for Chemical Analysis of Water and Wastes," EPA, 3rd Edition, 1983.
- CCR Title 22, Section 66261, Appendix II, California Waste Extraction Test.
- CCR Title 22, Section 66261, Appendix XI, Organic Lead.
- "Standard Methods for the Examination of Water and Wastewater," APHA, AWWA, WEF, 18th Edition, 1992.
- USEPA Contract Laboratory Program Statement of Work for Inorganic Analyses, ILM02.1, ILM03.0, ILM04.0, 1991-1995.

Matrix Spike Report (MSR)

The MSR summarizes the percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. MSRs may not be provided with all analytical reports.

Laboratory Control Sample Report (LCSR)

The LCSR summarizes percent recovery information for laboratory control spikes on reagent water or soil. This information is a statement of performance for the method, i.e., the samples are properly prepared and analyzed according to the applicable methods.

Method Blank Report (MBR)

The MBR summarizes quality control information for reagents used in preparing samples. The absolute value of each analyte measured in the method blank should be below the method reporting limit (PQL) for that analyte.

Post Digestion Spike Report (PDSR)

The PDSR summarizes percent recovery information for post digestion spikes. A post digestion spike is performed for a particular analyte if the matrix spike recovery is outside of established control limits. Any percent recovery for a post digestion spike outside of established limits for an analyte indicates probable matrix effects and interferences for that analyte.

Qualifiers (Q)

ITS-SJ uses several data qualifiers in inorganic reports. These qualifiers give additional information on the analytes reported. The following is a list of qualifiers and their meanings:

- I - Sample was analyzed at the stated dilution due to interferences.
- U - Analyte concentration was below the applicable reporting limit. For matrix and post digestion spike reports, a value of "0.0" is entered for calculation of the percent recovery.
- B - Sample concentration was below the reporting limit but above the instrument detection limit. Result is entered for calculation of the percent recovery only.
- H - Spike percent recovery is not calculated due to possible interferences from relatively high concentration level of the analyte in the unspiked sample.

Comment Codes

In addition to qualifiers, the following codes are used in the comment section of all reports to give additional information about sample preparation methods:

- A - Sample was prepared for silver based on the silver digestion method developed by the Southern California Laboratory, Department of Health Services, "Acid Digestion for Sediments, Sludges, Soils and Solid Wastes. A Proposed Alternative to EPA SW846, Method 3050." Environmental Science and Technology, 1989, 23, 898-900.
- C - Spikes were prepared after extraction by the California Waste Extraction Test (CWET) method.
- D - Reported results are dissolved, not total, metals. Spikes were prepared after filtration.

Reporting Conventions

Analytical values reported are gross values, i.e., not corrected for method blank contamination. Solid matrices are reported on a wet weight basis, unless noted.

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REPORT SUMMARY
INCHCAPE, INC. (408)432-8192

MS. NICOLE MEEKS
PETROTEK
925 COMMERCIAL STREET
SAN JOSE, CA 95112

Workorder # : 9610066
Date Received : 10/03/96
Project ID : 965047
Purchase Order: N/A
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

INCHCAPE SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9610066- 1	STOCPLE1	SOIL	10/03/96	CWET-INORG
9610066- 2	STOCPLE2	SOIL	10/03/96	CWET-INORG
9610066- 1	STOCPLE1	SOIL	10/03/96	CWETMETALS
9610066- 2	STOCPLE2	SOIL	10/03/96	CWETMETALS

SAN JOSE LABORATORIES
(408) 432-8192
METHOD BLANK REPORT

ITS-SJ Sample ID: **BQ106EA**

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
DATA REPORT

Analyte-Method: **Lead-STLC-6010A**
Client Project Number: **965047**
Matrix - Units: **SOIL - mg/L**

SDG #: **N/A**
Prep. Batch: **14167**
Analyst:
Supervisor:

ITS-SJ Sample ID	Client Sample ID	Prep. Method	Instr. ID	Date Sampled	Date Prepared	Date Analyzed	D.F.	Reporting Limit	Results	Q
9610066-01	STOCPLE1	CWET	ICP2	10/03/96	10/10/96	10/13/96	10	0.40	2.5	
9610066-02	STOCPLE2	CWET	ICP2	10/03/96	10/10/96	10/13/96	10	0.40	2.9	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
METHOD BLANK REPORT

ITS-SJ Sample ID: **BO106EA**
Client Sample ID: **N/A**
ITS-SJ WO #: **9610066**
Client Project Number: **965047**
Matrix: **SOIL**

SDG #: **N/A**
Prep. Batch: **14167**
Analyst: SC
Supervisor: MH

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Lead-STLC	CWET	6010A	ICP2	10/10/96	10/13/96	10	mg/L	0.40	ND	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
SAMPLE DUPLICATE REPORT

ITS-SJ Sample ID: **9610066-01D**
Client Sample ID: **STOCPLE1**
Client Project Number: **965047**
Matrix: **SOIL**

SDG #: **N/A**
Analyst: SC
Supervisor: MK

Analyte	Prep. Method	Prep. Batch	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	Q
Lead-STLC	CWET	14167	6010A	ICP2	10/10/96	10/13/96	10	mg/L	2.5	2.5	0.0	

COMMENTS:

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192
MATRIX SPIKE REPORT

ITS-SJ Sample ID: **9610066-01MS**
Client Sample ID: **STOCPLE1**
Client Proj. : **965047**
Matrix: **SOIL**

SDG #: **N/A**
Analyst: SC
Supervisor: MW

Analyte	Prep. Batch	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amt.	Sample Conc.	Matrix Spike Conc.	% Rec.				Q
Lead-STLC	14167	6010A	ICP2	10/13/96	10/13/96	mg/L	1.0	2.5	3.4	90.0				

COMMENTS: "C"

INCHCAPE TESTING SERVICES
SAN JOSE LABORATORIES
(408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

ITS-SJ Sample ID: **LO136EA**
Client Sample ID: **N/A**
ITS-SJ WO #: **9610066**
Client Project Number: **965047**
Matrix: **SOIL**

SDG #: **N/A**
Prep. Batch: **14167**
Analyst: SC
Supervisor: MH

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Lead-STLC	CWET	6010A	ICP2	10/13/96	10/13/96	10	mg/L	1.0	0.96	96.0	

COMMENTS: "C"

CHAIN OF COUSTODY RECORD

9610066 (33) ~~9610047~~

JOB NO. 965047

PROJECT NAME ALASKA GASOLINE

LAB. NO.

SAMPLER (Signature)

DATE 10/3/96

PETROTEK
P.O. Box 612317
San Jose, California 95161

DATE	NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	ANALYSIS: TPH-G	TPH-D	BTEX	WET LEAD - Conc.			SEALED?	REMARKS
①	1	STOCKPILE ①	1				X				
②	2	STOCKPILE	1				X				
		L AS PER CLIENT (JEFF) O.K. TO CHOOSE A SAMPLE AS NUMBER 1 AND NUMBER 2. 10/7/96									

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
			LAB TO NOTE - Y/N → REMARKS
RELINQUISHED BY (Signature)	DATE/TIME 10/3/96	RECEIVED BY (Signature) 10.03.96 1425	
RELINQUISHED BY (Signature)	DATE/TIME 10.03.96 1445	RECEIVED FOR LAB BY (Signature) 10/3/96 1445	

CHAIN OF CUSTODY RECORD

Inchcape Testing Services
Environmental Laboratories

SAMPLE RECEIVING CHECKLIST

Workorder Number: 9610066	*Client Project ID:* 905047	*Quote Number:*

Cooler			
Shipping documentation present? If YES, enter Carrier and Airbill #:	YES	NO	(N/A)
Custody Seal on the outside of cooler? *Condition*: Intact ☐ Broken ☐	YES	NO	(N/A)
Temperature of sample(s) within range? List temperatures of cooler(s): 5° Note: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as soon as possible.	(YES)	NO	N/A
Samples			
Chain of custody seal present for each container? *Condition*: Intact ☐ Broken ☐	YES	NO	(N/A)
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested? *Condition of containers*: Intact ☒ Broken ☐ If NO, were samples transferred to proper container(s)? Yes ☐ No ☐	(YES)	NO	
Were VOA containers received with zero headspace? If NO, were bubbles < 6 mm? Yes ☐ No ☐	YES	NO	(N/A)
Were container labels complete? (ID, date, time, preservative)	(YES)	NO	N/A
Were samples properly preserved? If NO, was the preservative added at time of receipt? Yes ☐ No ☐	(YES)	NO	N/A
pH check of samples required at time of receipt? If YES, pH checked and recorded by:	YES	(NO)	
Sufficient amount of sample received for methods requested? If NO, has the client or PM been notified? Yes ☐ No ☐	(YES)	NO	
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	(N/A)
Chain of Custody			
Chain of custody form received with samples?	(YES)		NO
Has it been filled out completely and in ink?	(YES)		NO
Sample IDs on chain of custody form agree with labels?	(YES)		NO
Number of containers on chain agree with number received?	(YES)		NO
Analysis methods specified?	(YES)		NO
Sampling date and time indicated?	(YES)		NO
Proper signatures of sampler, courier and custodian in appropriate spaces? With time and date? Yes ☒ No ☐	(YES)		NO
Turnaround time? Standard ☒ Rush ☐			

Any NO responses and/or any BROKEN that was checked must be detailed in a Corrective Action Form.

Sample Custodian: [signature] Date: 10-7-96 Project Manager: [signature] Date: 10/8/96

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CHAIN OF CUSTODY RECORD

JOB NO.	PROJECT NAME
965047	ALASKA GASOLINE
LAB. NO.	SAMPLER (Signature)
DATE 10/3/96	SAMPLE LOCATION/INFORMATION

PETROTEK
P.O. Box 612317
San Jose, California 95161

DTF	NO.	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	ANALYSIS: TPH-G	TPH-D	BTEX	WET LEAD				SEALED?	REMARKS
	1	STOCKPILE	1				X					
	2	STOCKPILE	1				X					

CHAIN OF CUSTODY RECORD

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	LAB TO NOTE - Y/N → REMARKS
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	
	10/3/96	10.03.96 1425	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED FOR LAB. BY (Signature)	