

PETROTEK

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

Phone (408) 453-1888 • FAX (408) 453-1897

Contractors License #590295

5/96

3-1888 • FAX (408) 453-1897
Stors License #590295

Fed's Page 1

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

The second of the second of

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Pair Boulevard • Richmond, California 04861

CUSTOM.ER.
ETROTEK SA
JOB NO.

E.	OR: <u>ERIČKSO</u>	N, INC. TA	NK NO17	743	
LOCATION:				07 –	
				U/ IIME: US	<u></u>
TEST METHOD VISUAL	GASTECH/1314	SMPN LA	ST PRODUCT _	<u> </u>	
This is to certify that if	nave personally d	etermined th	at this tank is	in accordance v	VII ter viet to Average
Petroleum Institute and	have found the c d on conditions	condition to lead on the existing at	be in accordar the time the	nce with its assignment inspection here	ined esignat
completed and is issued s	subject to complia	nce with all q	ualifications an	id instructions.	Page 1990 September 1
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TANK SIZE 10000			CONDITION_		
HEMARKS OXYGEN ERICKSON, INC. H	EREBY CERTIFI	ES THAT TH	IE ABOVE NU	MBERED TANK	Per victololy
CUT OPEN PROCES WASTE FACILITY		5 10 10 10 10 10 10 10 10 10 10 10 10 10			Es :
ERICKSON, INC. H SHIPPED TO US FO	R PROCESSING:	RIATE: PERN	4ITS FOR,	AND HAS ACCE	KUDIDO VIETO III
					The second secon
In the event of any physical of amediately stop all hot work	r atmospherio change and contact the unc	es affecting the dersigned. This	gas-free condition	ns of the above tank	Geografia (1977) Velles III on a visitate della
*** Changes occur.	2. Entrance	•	· Br		
STANDARD SAFET SAFE FOR MEN: Means that in			nated (a) Thriry	n content of the	atmosphere is at i
19.5 percent by volume; and t judgment of the inspector, the while maintained as directed or	hat (b) Toxic materia e residues are not ca	ls in the atmosp pable of produ	phere are will	ਾਮਾssable concentr	ations: and (c) In
SAFE FOR FIRE: Means the	it in the compartme	nt so designate	ed (a) The conc that (b) In the luc	entration of flamma	ibje minerku in
not capable of producing a hi	gher concentration the ted on the inspector	at∂permitted un s certificate. an	der existing atmo	spheric conditions ir adjacent spaces have	the prisence of
rufficiently to prevent the spr recessary by the Inspector	ead of fire, are satisfa	actorily Inerted,	or in the case of	tuel tanks have bed	In all the date of the

INSPECTOR

CAY OR NIGHT TELEPHONE 75101 035-1393

TANK SIZE ____350

CERTIFICATE

CERTIFIED SERVICES

NO: 2

†68**08**3

SAFE FOR EIRE

CUSTOMER STRCTEK - SA JOB NO.

FOR: ERICKSON, INC. TANK NO. 1"744

LOCATION RICHMOND DATE: 96/05/07 TIME: 09123

TEST METHOD _____ VISUAL GASTECH/1314 SMPN LAST PRODUCT _____ UO

GALLON TANK

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 designation. This certificate is based on conditions existing at the time the inspection herein set forth we completed and is issued subject to compliance with all qualifications and instructions.

CONDITION

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% SEED ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAVARDOUS WASTE FACILITY.

ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED OF SHIPPED TO US FOR PROCESSING.

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or it in any coul 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 MEDIT 19 That is the second second

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable in sterials in atmosphere is below 10 percent of the lower explosive limit; and that (b) in the judgment of the inspector, i.e jestified 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 clear sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as the large necessary by the inspector.

The U dersigned representative acknowledges receipt of this certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions and illing all in the certificate and understands the conditions are certificated and understands the conditions are certificated and understands.

REPRESENTATIVE

TITLE

INSPECTOR

DAY OR NIGHT TELEPHONE (510) 235-1392

CERTIFICATE CERTIFIED SERVICES COTTON

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CUSTOMER. : المالدن SAN NO. 83 FOR: ERICKSON, INC. TANK NO. 17 LOCATION: RICHMOND DATE: 96/05/03 TIME: 09:23 TEST METHOD VISUAL GASTECH/1314 SMFN 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 de gnation This certificate is based on conditions existing at the time the inspection herein set orth was completed and is issued subject to compliance with all qualifications and instructions. CONDITION SAFE FOR FIRE TANK SIZE ALLOS ... 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 JAN 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 of atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN. Means that in the compartment of the region of the atmosphere is at least content by the region of the process the region of the process the region of the process the region of the important of th

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 judgment of the inspector in the judgment of the inspector in the judgment of the inspector.

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

REPRESENTATIVE

TITLE

INSPECTOR ::

* DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY 255 Pair Pouls and - Richmond California 0457

	NO.	2400
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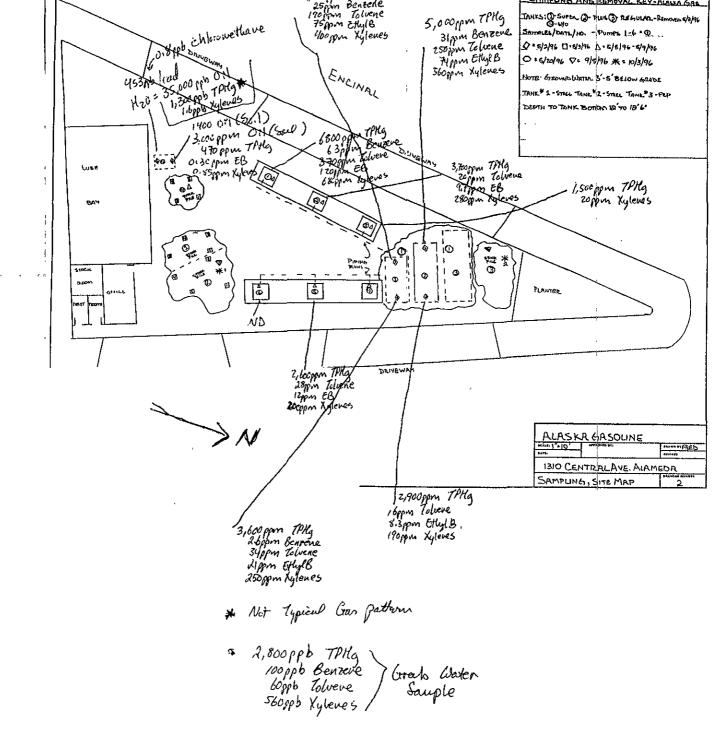
	FOR: ERTCK, 1, MC. TANK NO.		
	LOCATION: RICHMOND DATE: 96/05/07 TIME: 09:23		
TE	EST METHOD VISUAL GASTECH/1314 SMPN LAST PRODUCT ULG		
	This is to certify that I have personally determined that this tank is in accordance with Petroleum Institute and have found the condition to be in accordance with its assign. This certificate is based on conditions existing at the time the inspection herein completed and is issued subject to compliance with all qualifications and instructions.	ed design	anation
·	TANK SIZE SAFE FOR	FIRE	
	REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1% ERICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HA CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED H WASTE FACILITY. ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPT SHIPPED TO US FOR PROCESSING.	AZARDO	ບຣ
	in the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physichanges occur. STANDARD SAFETY DESIGNATION SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atm 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within be a size of concentration independ of the base of the residual arc and the provided atmosphere are within the concentration of the base of the residual arc	cal, or atmosphere is one; and (nospheric s at least c) In the
	SAFE FOR FIRE. Means that in the companies of designated (a) The consolidation of dammable atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector not capable of producing a higher concentration that permitted under existing atmospheric conditions in the and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have a sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been necessary by the Inspector.	or, the res ne preson oither been	idues are ce of fire r cleaned
	The undersigned representative acknowledges receipt of this certificate and understands the conditions and which was issued. HERESENTATIVE TITLE INSPECTOR	ilmilisilən	jekselarot (j.)

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State of California—Environmental Protection Agency

GMB No. 2050-0039 (Expires 9-30-96) Type: Form designed for use on elite (12-pitc	R. F d Se	e Instructi	ons on back o	f page	6.948083		nt of Taxle Substa acramento, Califo	
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Generator's Phone 501 271	3 4 US EPA II) Number		iro exercis	i de la		المناديات المنادية	
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Transporter 2 Company Name	E OS EPA II	D Number	KK 13012	E. State	Transporter's ID	0 00	22071	
				2000年7年10日	oorter's Phone 3			
Designated Facility Name and Site Address Erickson, Inc.	10. US EPA II	O Number		61	Delei9	針的物	319211	
255 Parr Blvd. Richmond, CA. 94801	I ĆI AI DI G	이 이 의 41	6 6 3 9 2	fi Facili	or none			
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GENERATORIS CERTIFICATION: I hereby	y declare that the contents of this c	onsignment are	fully and accurately	y describe	d above by proper	shipping nar	ne and are classi	fied,
packed, marked, and labeled, and are in a							1	
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waste management method that is available the desired Name	e to me and that I can afford. Signature	 		a //	,	Mor		١
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(V) 10:05 j

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:

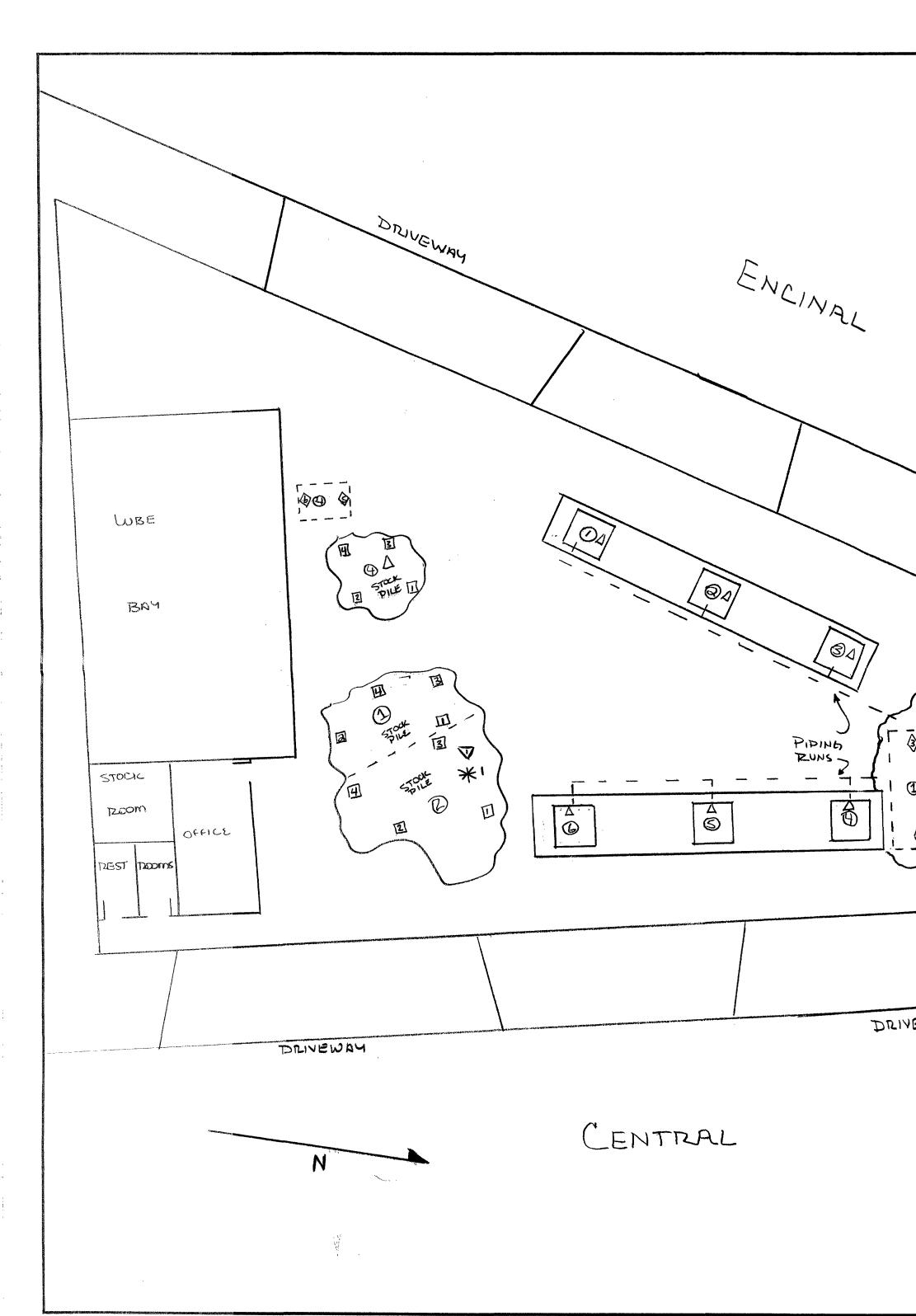
As per your request, I have included below the name and address of the disposal facility where the soil from the Alsaka Gasoline was taken.

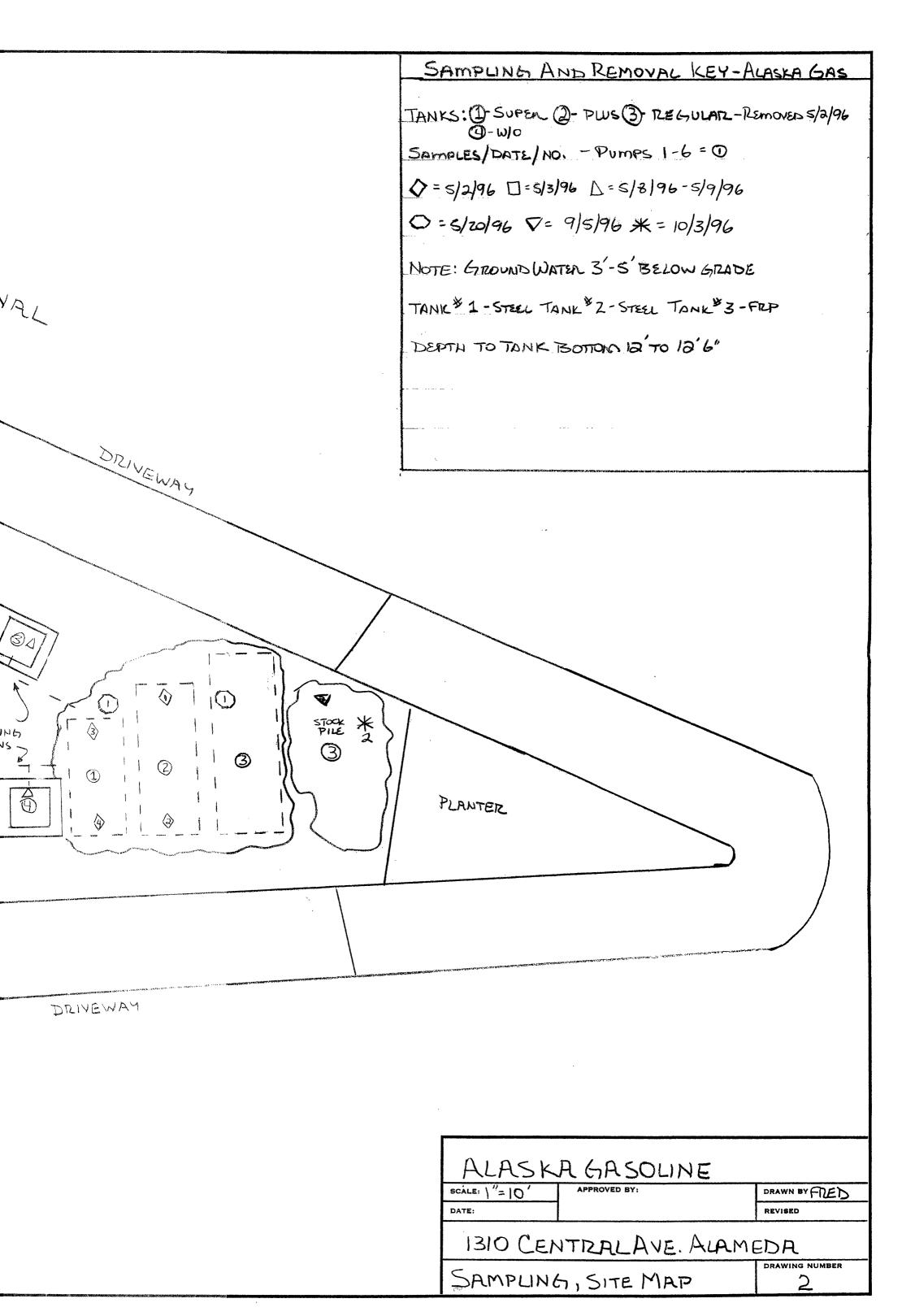
B&J Landfill/Alta Environmental 6426 Hay Road Vacaville, CA 95687

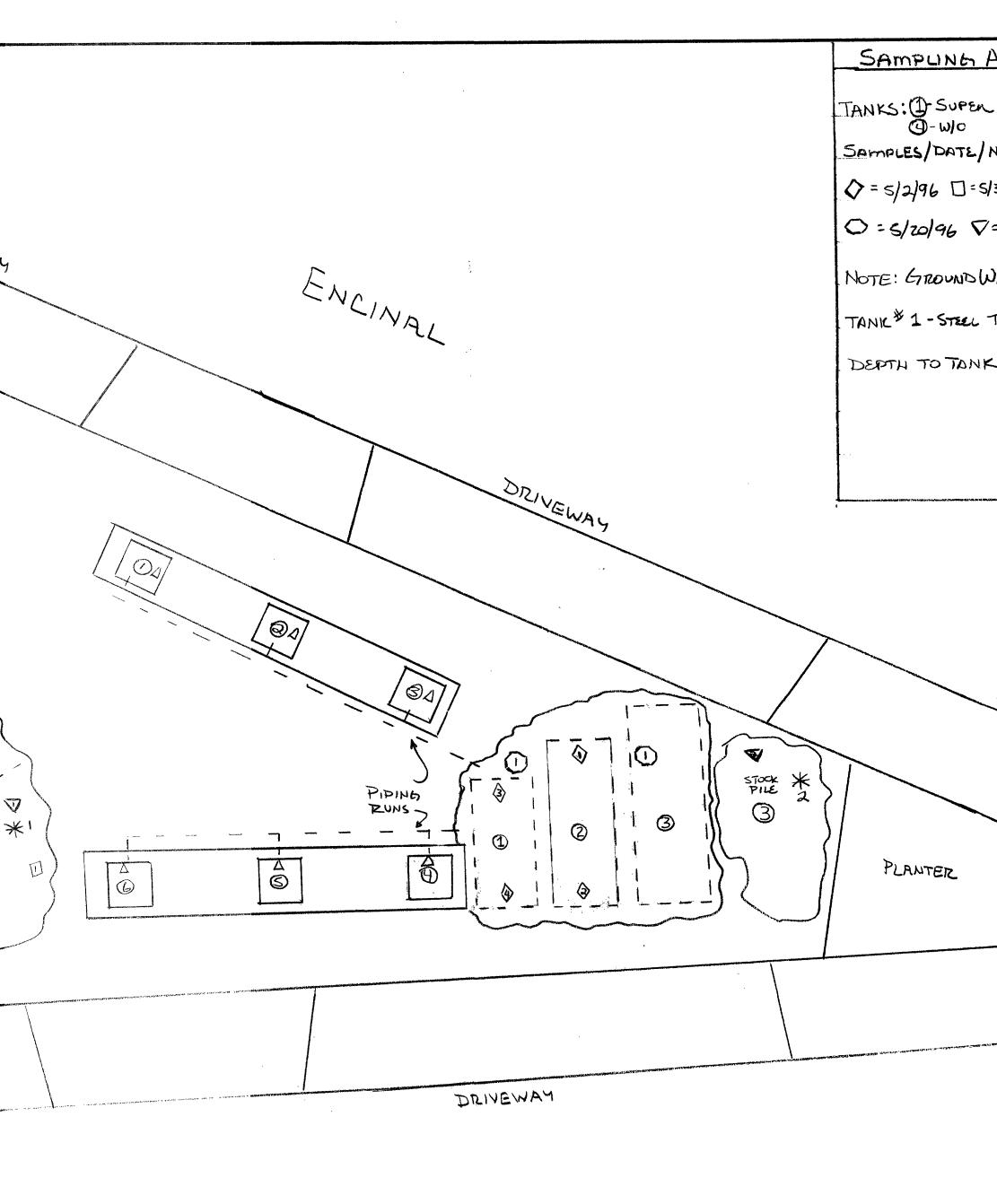
If you have any questions or need any additional information please contact me at (415) 492-903().

Sincerely,

Joshua DeCarl







CENTRAL

BCALE: \"= 10'

SAMPLI

KEY PER PLOT PLAN

Angiytical & Environmental Chemistry

05/20/96

A/E4131

DALE MCANALLY PETROTEK 925 COMMERCIAL AVE SAN JOSE, CA

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

ALASKA GASOLINE

Client Project ID: Date Received by Lab: Total Number of Samples:

05/07/96

Sample Matrix:

SOIL(5), SOIL COMPOSIT(3), & WATER(1)

<u>Volatile Organics</u> 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.

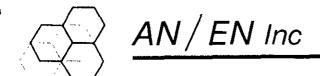
Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides - GC-ECD/ECD) is used for the analysis.

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:

Glantz-Murphy Laboratory Manager **L**aurie



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:

pm

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

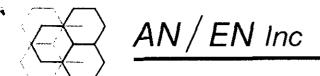
PQL = Practical Quantitation Limit.

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



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

Client Project/L.D.:

ALASKA GASOLINE

Date Sampled:

05/02/96

Date Received:

05/06/96

Date Extracted:

05/03/90

Matrix:

Water

Analyst:

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

				Date	
Sample ID	Diesel	Oil	Lab I.D.	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.

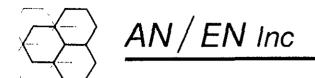
ND = None Detected at or above the PQL.

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

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

U 3

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



TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE - SOIL

Batch I.D.:

0506-13

Date Extracted:

05/07/96

Date Analyzed:

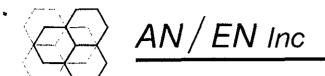
05/07/96

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

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

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits.



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:

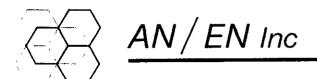
05/08/96

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.



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

Client Project / I.D.:

ALASKA GASOLINE

Matrix:

Soil

Date Received:

05/06/96

Analyst: 4M

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.

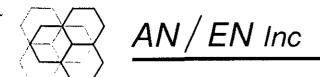
< = Increased PQL due to sample dilution.

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

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

Z. recycled paper



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

Batch I.D.:

0507-22.D

Date Analyzed:

PIT WATER

Date Sampled:

05/02/96 05/06/96

Dilution:

05/0**7**/96

Date Received: 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.

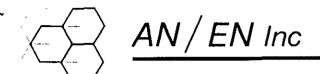
Surrogates	Recovery	Limits
a,a,a-TFT(FID)	97%	64-129
4-BFB(FID)	84%	55-151
4-BFB(PID)	93%	68-137

0007

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.



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

Laboratory I.D.:

INSTRUMENT BLANK

Batch I.D.:

0507-01.D

Date Aguired:

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.

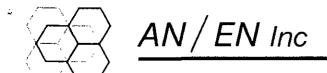
PQL = Practical Quantitation Limit.

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 & Tris 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.



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).

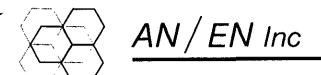
Analyte	Conc.	PQL
Methyl-tert-Butyl Ether	, ND	1.0
Benzene	ND	0.5
Toluene	ND	0.5
Ethylbenzene	ND	0.5
Xylenes-Total	ND	0.5
TPH-Gasoline	ND	50.

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).

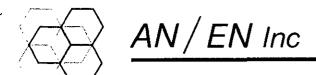
Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	40.	99%	82-113
Benzene	20.	20.	101%	84-113
Toluene	20.	20.	102%	90-110
Ethylbenzene	20.	20.	101%	89-112
m,p-Xylenes	20.	20.	100%	88-113
o-Xylene	20.	20.	102%	88-114
TPH-Gasoline	1,250.	1,359.	109%	77-130

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

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

LCS Recovery: 0 out of 7 outside limits.

^{* =} Values outside of QC limits.



LABORATORY CONTROL SAMPLES

Method:

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

Date Aquired:

05/08/96

Expressed as mass (ng).

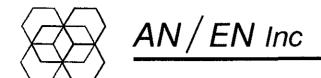
Analyte	Amount Added	Amount Found	LCS Rec	%Rec Limits
Methyl-tert-butyl Ether	40	42.	105%	82-113
Benzene	20.	21.	103%	84-113
Toluene	20.	21.	103%	90-110
Ethylbenzene	20.	21.	103%	89-112
m,p-Xylenes	20.	21.	105%	88-113
o-Xylene	20.	21.	107%	88-114
TPH-Gasoline	1,250.	1,314	105%	77-130

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

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

LCS Recovery: 0 out of 7 outside limits.

^{* =} Values outside of QC limits.



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method:

8010

Laboratory Number: 4131-05

Sample I.D.:
-05 Project:

Waste Oil North End

Date Sampled:

05/02/96 05/06/96 Project: Alaska Gas
Dilution: 50

Date Received: Matrix:

05/06/96 Soil Date Analyzed:

05/15/96

Analyst:

hin

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

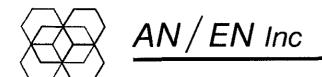
Surrogates	Recovery	Limits
3-Chloro-1-propene	93%	70-135%
4-Chlorotoluene	101%	70-135%

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

NOTE: Sample was diluted due to matrix interference.

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





VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method:

8010

Laboratory Number: BLK0515B

Date Sampled: Date Received: Matrix:

N/A N/A

Soil

Sample I.D.: Project:

Method Blank

Dilution:

Alaska Gas 50

Date Analyzed:

05/15/96

Analyst:

My

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

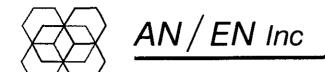
CAS#	Analyte	Conc.	Q PQL
74-87-3	Chloromethane	ND	50
75-01-4	Vinyl chloride	ND	50
74-83-9	Bromomethane	ND	50
75-00-3	Chloroethane	ND	50
75-69-4	Trichtorofluoromethane	ND	50
75-35-4	1,1-Dichloroethene	ND	50
76-13-1	Trichlorotrifluoroethane	ND	50
75-09-2	Methylene chloride	ИD	50
156-60-5	trans-1,2-Dichloroethene	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 <u>%</u>	70-135%

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

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





LABORATORY CONTROL SAMPLE

EPA Method:

8010

Date Analyzed: 05/15/96

Laboratory Number: LCS0515A Matrix:

Water

Analyst:

RS

Concentration expressed as ug/L (ppb).

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

^{* =} Values outside of QC limits.

Spike Recovery:0 out of 5 outside limits.

QC-LAB CONTROL SAMPLE

A/E 4/3/ **CHAIN OF CUSTODY RECORD** JOB NO. Alaska Gosoliae LAB. NO. SAMPLE LOCATION/INFORMATION REMARKS PuL Plus ac west end Pul -02 Plusuc easterd **CUSTODY RECORD** -03 Super UL westend 104 Super we castend -05 auste oil Northead waste oil pit 15=insut. sample CHAIN OF for all requested Amalyses 5/7/96 Swa Fredwill resum, Ly to water left-brought soil (4134) Sub-Sumpled for lead on 5-7-96 1200 by (Signature) DATE/TIME/) YO RECEIVED BY (Signature) LAB TO NOTE - Y/N - REMARKS

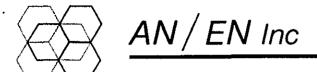
| And Lead on B. 8270 on O

| Signature | AB TO NOTE - Y/N - REMARKS (5 Loft) on B

| CEIVED BY (Signature) and Lead on B. 8270 on O 70#4131 2 copies of report please RECEIVED FOR LAB. BY (Signature) 5-10-46 US30

CHAIN OF CUSTODY RECORD

JOB NO	<u> </u>	PROJECT N	WE			-		7.	· 7		, -	,,	<u>- , , , , , , , , , , , , , , , , , , ,</u>				24121 (.
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11	2	Super	unlead	led Fastsid	0	*	X		X			_			omp	THE	+
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LINOUISHI	ED BY	(Signature) DA	TE/TIME	RECEIVED FOR LAB, BY	(Signal	ture)											



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

ALASKA GASOLINE Client Project ID:

Date Received by AN/EN: 05/07/96 Number of Samples: 9

Number of Samples:

SOIL(5), SOIL COMPOSIT(3), & WATER(1) Sample Matrix:

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

Sincerely,

1961 Concourse Drive Suite E San Jose, CA 95131 Tel: 408-432-8192 Fax: 408-452-8198

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

Date 5- 25-0/6

This report consists of <u>B</u> 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:

- 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.
- 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., not 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 Workorder # : 9605097
AN/EN INC. Date Received : 05/10/96

455 RESERVATION ROAD, SUITE G Project ID : ALASKA GASOLINE

MARINA, CA 93933

Purchase Order: 4131

Department: GCMS

Sub-Department: GCMS

QA/QC SUMMARY :

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

- 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.

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 7/2

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

Project ID : ALASKA GASOLINE : 9605097-05 Anametrix ID Sample ID : 05 Lab File ID : MPY09705

Matrix : SOIL : 05/02/96 Date Sampled

Date Extracted : 05/15/96

Amount Extracted: 30.0 g Date Analyzed: 05/15/96 % Moisture Date Analyzed : 05/15/ Instrument ID : msd4.i Volume of Final Extract: Dilution Factor: 1.0

: msd4.i Conc. Units : ug/Kg 1 ml

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	Ū
95-57-8	2-Chlorophenol	330	ND	Ţ
541-73-1	1,3-Dichlorobenzene	330	ND	ũ
106-46-7	1,4-Dichlorobenzene	330	ND	Ŭ
95-50-1	1,2-Dichlorobenzene	330	ND	Ü
95-48-7	2-Methylphenol	330	ND	ט
108-60-1	2,2'-oxybis(1-Chloropropane)	330	ND	ប
106-44-5	4-Methylphenol	330	ND	ט
621-64-7	N-Nitroso-di-n-propylamine	330	ND	"
67-72-1	Hexachloroethane	330	ND	Ü
98-95-3	Nitropenzene	330	\mathbf{N} D	U
78-59-1	Isopnorone	330	$\mathbf{N} \mathbb{D}$	ו שו
88-75-5	2-Nitrophenol	330	ND	ן ש
105-67-9	2.4-Dimethylphenol	330	ND	ו ט
111-91-1	bis(2-Chloroethoxy)methane	330	ND	ן ט
120-83-2	2.4-Dichlorophenol	330	ND	U
120-82-1	1,2,4-Trichlorobenzene	330	ND	ן שׁ
91-20-3	Naphthalene	330	ND	שׁ
106-47-8	4-Chloroaniline	330	ND	ט ו
87-68-3	Hexachlorobutadiene	330	ND	lΰ l
59-50-7	4-Chloro-3-Methylphenol	330	ND	υ
91-57-6	2-Methylnaphthalene	330	ND	ו שׁ
77-47-4	Hexachlorocyclopentadiene	330	ND	Ŭ
88-06-2	0 4 6 Mari - 16 1 1	330	ND	Ū
95-95-4	2,4,5-Trichlorophenol	1700	ND	lŭ l
91-58-7	2-Chloronaphthalene	330	ND	l <u>ŭ</u>
88-74-4	2-Nitroaniline	1700	ND	Ü
131-11-3	Dimethylphthalate	330	ND	Ū
208-96-8	Acenaphthylene	330	ND	υ
606-20-2	Acenaphthylene	330	ND	lΰ
99-09-2	3-Nitroaniline	1700	ND ND	ŭ
83-32-9		330	ND ND	Ü
51-28-5	Acenaphthene 2,4-Dinitrophenol	1700	ND	Ü
	4 Nitropherol	1700	ND ND	ן ט
100-02-7	4-Nitrophenol	330		ן ט
132-64-9	Dibenzofuran 2,4-Dinitrotoluene		ND	ן ש
121-14-2	2,4-Dinitrotoruene	330	ND	
84-66-2	Diethylphthalate	330	ND	U
7005-72-3	4-Chlorophenyl-phenylether	330	ND	Ū
86-73-7	Fluorene	330	ND	ש

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

Project ID Sample ID Anametrix ID : 9605097-05 Lab File ID : MPY09705 : ALASKA GASOLINE : 05

: SOIL Matrix

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: % Moisture Dilution Factor: 1.0

Conc. Units : ug/Kg

 $1~\mathrm{ml}$

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	Ü
86-30-6	N-nitrosodiphenylamine (1)	330	ND	ΙŬ
101-55-3	4-Bromophenyl-phenylether	330	ND	ΙŬ
118-74-1	Hexachlorobenzene	330	ND	Ϊ́Ū
87-86-5	Pentachlorophenol	330	ND	Ū
85-01-8	Phenanthrene	330	ND	Ū
120-12-7	Anthracene	330	ND	Ū
84-74-2	Di-n-butylphthalate	330	ND	Ū
206-44-0	Fluoranthene	330	ND	ĺΰ
129-00-0	Pyrene	330	ND	Ū
85-68-7	Butylbenzylphthalate	330	ND	Ìΰ
91-94-1	Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene	660	ND	Ū
56-55-3	Benzo(a) anthracene	330	ND	Ū
218-01-9	I Chrysene	330	ND	Ü
117-81-7	bis(2-Ethylhexyl)phthalate	660	ND	U
117-84-0	Di-n-octylphthalate —	330	$\mathbf{N} \mathbb{D}$	Ü
205-99-2	Benzo(b) fluoranthene	330	\mathbf{N} D	שׁ
207-08-9	Benzo(k) fluoranthene	330	ND	שׁו
50-32-8	Benzo(a) pyrene	330	ND	lΰ
193-39-5	Indeno(1,2,3-cd)pyrene	330	ND	ľΰ
53-70-3	Dibenz (a, h) anthracene	330	ND	U
191-24-2	Benzo(g,h,i)perylene	330	ND	Üΰ
100-51-6	Benzyl Alcohol	330	ND	Ü
65-85-0	Benzoic Acid	1700	ND	U
62-75-9	N-Nitrosodimethylamine	330	\mathbf{N} D	Ū
103-33-3	Azobenzene	330	ND	Ū
92-87-5	Benzidine	1700	ND	U
52-53-3	Aniline	330	ND	U

Project ID : ALASKA GASOLINE Sample ID : SBLKKO Matrix : SOIL Anametrix ID : BY15H1B1 Lab File ID : BY15H1B1

Date Sampled

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

CNG NO	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	
CAS NO.	COMPOUND NAME	TITMITI	DETECTED	Q
108-95-2	Phenol	330	ND	ַט
111-44-4	bis(-2-Chloroethyl)Ether	330	ND	Ŭ
95-57-8	2-Chlorophenol	330	ND	Ŭ
541-73-1	2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene	330	ND	ប
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	Ų
108-60-1	2-Methylphenol 2,2'-oxybis(1-Chloropropane)	330	ND	บ้
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	Ų
98-95-3	Nitrobenzene	330	ND	U
78-59-1	Isophorone 2-Nitrophenol 2,4-Dimethylphenol	330	ND	Ŭ
88-75-5	2-Nitrophenol	330	ND	U
105-67-9	2,4-Dimethylphenol	330	ND	U
111-91-1	bis(2-Chloroethoxy)methane	3301	ND	Ų
120-83-2	2,4-Dichlorophenol	330	ND	ָ <u>'</u>
120-82-1	1,2,4-Trichlorobenzene	330	ND	Ŭ
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	Ų
91-57-6	2-Methylnaphthalene	330	ND	Ü
77-47-4	Yexachlorocyclopentadiene	330	ND	U
88-06-2	2,4,6-Trichlorophenol 2,4,5-Trichlorophenol	330	ND	U
95-95-4	2,4,5-Trichlorophenol	1700	$\mathbf{N}\mathbf{D}$	U
91-58-7	2-Chioronaphthaiene	330	ND	Ü
88-74-4	2-Nitroaniline	1700	ND	Ü
131-11-3	Dimethylphthalate	330	ND	U
208-96-8	Acenaphthylene 2,6-Dinitrotoluene	330	ND	U
606-20-2	2,6-Dinitrotoluene	330	ND	U
99-09-2	3-NICLOGIIIIIIe	1700	ND	U
83-32-9		330	ND	U
51-28-5	2,4-Dinitrophenol	1700	ND	U
100-02-7	Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol	1700	ND	U
132-64-9	l linengoriiran	330	ND	U
121-14-2	2,4-Dinitrotoluene	330	ND	Ū
84-66-2	Diethylphthalate	330	ND	Ū
7005-72-3	Diethylphthalate 4-Chlorophenyl-phenylether	330	ND	Ū
86-73-7	Fluorene	330	ND	U

Project ID : ALASKA GASOLINE Sample ID : SBLKKO Anametrix ID : BY15H1B1 Lab File ID : BY15H1B1

: SOIL Matrix

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

Conc. Units : ug/Kg

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
00-01-6	4-Nitroaniline	1700	ND	U
34-52-1	4-Nitroaniline 4,6-Dinitro-2-methylphenol N-nitrosodiphenylamine (1) 4-Bromophenyl-phenylether Hexachlorobenzene Pentachlorophenol	1700	ND	υ
6-30-6	N-nitrosodiphenylamine (1)	330	ND	Ū
.01-55-3	4-Bromophenyl-phenylether	330	ND	Ū
18-74-1	Hexachlorobenzene	330	ND	ľŭ
7-86-5	Pentachlorophenol	330	ND	ϋ
5-01-8	Phenanthrene	330	ND	ΙŬ
20-12-7		220	ND	lΰ
4-74-2	Di-n-butylphthalate	330	ND	บั
06-44-0	Fluoranthene	330	ND	Ū
29-00-0	Pyrene		ND	Ū
5-68-7	Butylbenzylphthalate	330	ND	lŪ
1-94-1	Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a) anthracene	660	ND	Ιΰ
6-55-3	Benzo(a) anthracene	330	ND	U
18-01-9	Chrysene bis(2-Ethylhexyl)phthalate Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene	330	ND	U
17-81-7	bis(2-Ethylhexyl)phthalate	660	ND	U
17-84-0	Di-n-octylphthalate	330	ND	ט
05-99-2	Benzo (b) fluoranthene	330	ND	ט
07-08-9	Benzo(k) fluoranthene	330	ND	ĺΰ
0-32-8	Benzo(a)pyrene	330	ND	U
93-39-5	Indeno (1, 2, 3-cd) pyrene	330	ND	ע
3-70-3	Benzo(k) fluoranthene Benzo(a) pyrene Indeno(1,2,3-cd) pyrene Dibenz(a,h) anthracene Benzo(g,h,i) perylene Benzyl Alcohol	330	\mathbf{N} D	שׁ
91-24-2	Benzo(g,h,i)perylene	330	ND	ט
.00-51-6	Benzoic Acid	330	ND	U
5-85-0	Pengoic Acid	1700	ND	Ü
2-75-9	N-Nitrosodimethylamine	330	ND	ט
.03-33-3	Azobenzene Benzidine	330	ND	U
2-87-5	Benzidine	1700	ND	U
2-53-3	Aniline	330	ND	ប

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

Project ID Matrix

: ALASKA GASOLINE

: 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
	SAMPLE NO.	(MBZ)#	(rDF)#	(TED)#	====== (ETT) #	\	(105)#	l i	#	F F
01	SBLKKO	74	86	78	76	81	94		=====	0
02	SBLKKOLCS	74	86	82	78	81	100		ļ 	0
03	SBLKKOLCSD	73	84	85	81	82	100	'		ŏ
04	05	63	90	127	84	80	91	,		Ö
05	05MS	51	90	130	82	75	91			0
06	05MSD	46	92	142*	81	74	90			1
07						<u></u>				ll
80		i								
09										
10										
11 12										
13										
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27										
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29		·								
30										

				QC LIMITS
s_1	(NBZ)	=	Nitrobenzene-d5	(23-120)
S2	(FBP)	=	2-Fluorobiphenyl	(30-115)
S 3	(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 L: RPD	IMITS REC.
Dhamal	2500	======================================	=====	=====	======	=====
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
		<u> </u>				

(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

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

Lab File ID : MY15H1B1/NY15H1B1

Project ID : ALASKA GASOLINE

Sample ID : SBLKKO Matrix : SOIL

Date Sampled : 05/15/96 Date Extracted Prep. Batch ID Date Analyzed Instrument ID : hdy15x41 : 05/15/96 : msd4.i

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	2500	0.0	1000	======	
2-Chlorophenol	2500	0.0	1800 1900	72 76	35- 97 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
					l

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

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

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

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

Lab File ID : MY15H1B1/NY15H1B1

: ALASKA GASOLINE Project ID

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-Dinltrotoluene	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 LI RPD	MITS 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

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

_	_		
COMMENTS:			

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

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., not 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
960 5097 5	05	SOIL	05/02/96	6010
960 5097- 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.

INORGANICS - PAGE

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

ITS-SJ Sample ID: 9605097-06

SDG #: N/A

Client Sample ID: 06

Date Sampled: 05/02/96

Client Project Number: ALASKA GASOLINE

Analyst: 1

Matrix: WATER

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	ľ
Zinc	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	20.0	753	

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

ITS-SJ Sample ID: 9605097-05

SDG #: N/A

Client Sample ID: 05

Date Sampled: 05/02/96

Client Project Number: ALASKA GASOLINE

Analyst: Mk Supervisor: Mk

Matrix: SOIL

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	1
Chromium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	1.0	20.8	1
Lead	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	0.30	2.2	1
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	1

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: N/A Supervisor: N/A

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	

INCHCAPE TESTING SERVICES SAN JOSE LABORATORIES (408) 432-8192 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: \(\langle_{\lambda \lambda} \)

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Ø
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	

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

ITS-SJ Sample ID: BY136SA Client Sample ID: N/A

SDG #: N/A

Analyst: 1

ITS-SJ WO #: 9605097

Supervisor: M

Client Project Number: ALASKA GASOLINE

Matrix: SOIL

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	- n
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	

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: MW

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	4
Zinc	3010A	6010A	ICP2	05/13/96	05/17/96	1	ug/L	500	502	100	

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:

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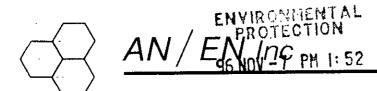
Analyte	Prep. Method	Analytical Method	instr.	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Cadmium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	5.0	5.2	104	
Chromium	3050A	6010A	ICP2	05/13/96	05/13/96	1	mg/Kg	20.0	19.8	99.0	
Lead	3050A	6010A	ICP2	05/13/96	05/13/96	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	



SAMPLE RECEIVING CHECKLIST

Workorder Number: 9005097 Clie	nt Project ID:	ALASK	A GAS
Cooler			
Shipping documentation present?	YES	NO	(N/A)
If YES, enter Carrier and Airbill #:			
Custody Seal on the outside of cooler?	YES	NO	ONA
Condition: Intact Broken	·		
Temperature of sample(s) within range?	(YES)	NO	N/A
List temperatures of cooler(s):	••		,
Note: If all samples taken within previous 4 hr, circle N/A and place in	i		
sample storage area as soon as possible.			
			1
Samples	1000		A 714
Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: Intact Broken	*****		7714
Samples arrived within holding time?	YES	NO	N/A
Samples in proper containers for methods requested?	(YES)	NO	
Condition of containers: Intact Broken			
If NO, were samples transferred to proper container(s)?			
Were VOA containers received with zero headspace?	YES	NO	Q(A)
If NO, was it noted on the chain of custody?			
Were container labels complete? (ID, date, time, preservativ	e) YES	NO	N/A
Were samples properly preserved?	(YES)	NO	N/A
If NO, was the preservative added at time of receipt?			
pH check of samples required at time of receipt?	(ES)	NO	1
If YES, pH checked and recorded by: KK			
Sufficient amount of sample received for methods requested	? YES	NO	
If NO, has the client or PM been notified?			
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	(N/A)
			į.
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?	(TES)	NO	
Analysis methods specified?	(YES)	NO	
Sampling date and time indicated?	YES	(NO)	
Proper signatures of sampler, courier and custodian in	(YES)	NO	1
appropriate spaces? With time and date?	·		
Turnaround time? Standard Rush			
Any NO responses and/or any BROKEN that was checked must be deta	ailed in a Correcti	ve Action Fo	rm.
		Date: <u>5- </u>	

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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: Date Received by Lab: ALASKA GASOLINE

05/08/96

Total Number of Samples:

SOIL

Sample Matrix:

<u>Volatile Organics</u> 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.

ETEX 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.

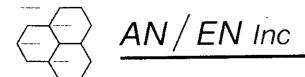
AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7,1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 10 pages.

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Reviewed and Approved:

Daboratory Manager Glantz-Murphy,



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:

m

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

Sample ID	Diesel	Oil	Lab I.D.	Date Extracted	Date Analyzed	PQL (ppm)
COACHES (O) LEDHIA SCAPHOLOR	ND.	3000	4134-01	05/09/96	05/09/96	1000
Method Blank	ND	ND	4134-MB	05/09/96	05/09/96	10

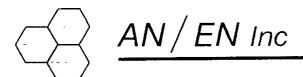
PQL = Practical Quantitation Limit.

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 (EUFT) Manual, Last Revision October 1989 Method 3550 is used for sample preparation



TPH-EXTRACTABLE - LABORATORY CONTROL SAMPLE - SOIL

Batch I.D.:

0509-06

Date Extracted:

05/09/96

Date Analyzed:

05/09/96

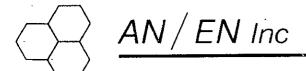
Concentration of sample and spikes expressed as ug/g (ppm).

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

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

RPD: 0 out of 1 outside limits

Spike Recovery: 0 out of 2 outside limits.



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

Client Project/I.D.:

ALASKA GASOLINE

Laboratory I.D.:

4134-01

Batch I.D.:

0511-10.D

Date Sampled:

05/08/96

Date Received:

05/08/96

Matrix:

Soil

Sample I.D.:

BOTTOM

WASTE OIL PIT

Date Analyzed:

05/11/96

Dilution:

5

Analyst: W

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

🚉 recocled paper

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



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.

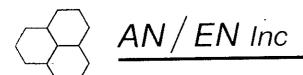
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Surrogates	Recovery	Limits
a,a,a-TFT(FID)	102%	73-126
4-BFB(FID)	105%	67-146
4-BFB(PID)	103%	82-119

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 Petroteum 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:

05/10/96

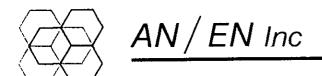
Expressed as mass (ng).

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
			103%	67-146
4-BFB-FID			104%	82-119
4-BFB-PID	LSC-GASOLINE	Batch 1D:	0511-05	
Surrogates	200 0/1002.112		91%	73-126
a,a,a-TFT-FID			122%	67-146
4-BFB-FID			103%	82-119
4-BFB-PID			10070	

LCS Recovery: 0 out of 7 outside limits.

^{* =} Values outside of QC limits.



Analytical & Environmental Chemistry

VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method: Laboratory Number: 4134-01

8010 05/08/96

Date Sampled: Date Received: Matrix:

05/08/96 Soil

Sample I.D.:

Waste Oil Pit Bottom

Project:

Alaska Gas

Dilution: Date Analyzed: 100 05/15/96

Analyst:

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

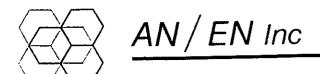
	CAS#	Analyte	Conc.	Q PQL	
	74-87-3	Chloromethane	ND	100	
	75-01-4	Vinyl chloride	ND	100	
	74-83-9	Bromomethane	ND	100	
	75-00-3	Chloroethane	ND	100	
	75-69-4	Trichlorofluoromethane	ND	100	
	75-35-4	1,1-Dichloroethene	ND	100	
	76-13-1	Trichlorotrifluoroethane	ND	100	
	75-09-2	Methylene chloride	ND	100	
	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.





Analytical & Environmental Chemistry

VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method:

8010

Laboratory Number: BLK0515B

Date Sampled: Date Received: N/A N/A

Matrix:

Soil

Sample I.D.:

Method Blank

Project:

Alaska Gas

Dilution:

50

Date Analyzed: Analyst:

05/15/96

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

CAS#	Analyte	Conc.	Q	PQL	
	Chloromethane	ND		50	
74-87-3		ND		50	
75-01-4	Vinyl chloride Bromomethane	ND		50	
74-83-9		ND		50	
75-00-3	Chloroethane Trichlorofluoromethane	ND		50	
75-69-4		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 ND		50	
79-01-6	Trichloroethene	ND		50	
78-87-5	1,2-Dichloropropane			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 50	
127-18-4	Tetrachloroethene	ND		50 50	
124-48-1	Chlorodibromomethane	ND		50 50	
108-90-7	Chlorobenzene	ND			
106-93-4	1,2-Dibromoethane (EDB)	ND		50 50	
75-25-2	Bromoform	ND		50 50	
79-34-5	1,1,2,2-Tetrachloroethane	ND		50 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



Analytical & Environmental Chemistry

LABORATORY CONTROL SAMPLE

EPA Method:

8010

Date Analyzed: 05/15/96

Laboratory Number: LCS0515A

Water

Analyst:

Matrix:

Concentration expressed as ug/L (ppb).

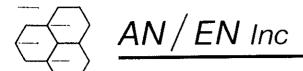
COMPOUND	Spike	LCS	LCS	%Rec
	Added	Conc	Rec	Limits
1,1-Dichloroethene 1,2-Dichloroethane Trichloroethene Tetrachloroethene Chlorobenzene	10	9.6	96%	75-125
	10	9.7	97%	75-125
	10	9.5	95%	75-125
	10	10.6	106%	75-125
	10	9.2	92%	75-125
Surrogates 3-Chloro-1-propene 4-Chlorotoluene			96% 97%	80-120 80-120

^{* =} Values outside of QC limits.

Spike Recovery:0 out of 5 outside limits.

QC-LAB CONTROL SAMPLE

	_ CHAIN OF C	SUSTODY RECORD	ALE 4134
DATE -846	SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS TOPHOGO TOPH	PETROTEK PAR SENSITY CANDENS S
5896]	bottom of wester oil pit	BUXXXXXX	Slight ader
		Care Awler	
		nehoa	
			Bill + report to AN/E/
			Do#4134
			2 copies de reportable 49/96 Qu
RELINQUISHED BY	(Signature) DATE/TIME RECEIVED BY (SI	Signature) LAB TO NOTE - Y/N	→ PREMARKS
ELINQUISHED BY		Gignature)	
ELINONSHED BY	(Signature) DATE:TIME RECEIVED FOR LAB. BY (St. 5/8/46)	Honoros Relinquiched 5/10/40	Hhy 5/10/010



Ang virgini (L. Environ manta, Chamis

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: 501L

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

Sincerely,

Laurie Glantz-Murphy



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.

Project Manager

5-23-46

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., not 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

: 9605098 Workorder #

Date Received: 05/10/96
Project ID: ALASKA GASOLINE

Purchase Order: 4134 : GCMS Department 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

- Surrogates were diluted out in the EPA Method 8270B analysis of

sample 1.

Department Supervisor Date

Project ID : ALASKA GASOLINE Sample ID : 1 SOIL Anametrix ID : 9605098-01 Lab File ID : MRY09801

: SOIL Matrix

Date Sampled : 05/08/96
Date Extracted : 05/13/96
Amount Extracted : 30.0 g
Date Analyzed : 05/20/96
Instrument ID : msd4.i

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

Volume of Final Extract: 1 ml

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	6600	ND	ט
111-44-4	bis(-2-Chloroethyl)Ether	6600	ND	ן יטן
95-57-8	2-Chlorophenol	6600	ND	ן ט
541-73-1	1,3-Dichlorobenzene	6600	ND	σ [
106-46-7	1,4-Dichlorobenzene 1,2-Dichlorobenzene	6600	ND	ן די
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	ן טן
106-44-5	l 4-Methylphenol	66001	ND	U
621-64-7	N-Nitroso-di-n-propylamine	6600	ND	ן ט
67-72-1	Hexachloroethane	6600	ND	ן ט'
98-95-3	Nitrobenzene	6600	ND	U
78-59-1	Isophorone	6600	ND	U;
88-75-5	2-Nitrophenol	6600	ND	ע' ו
105-67-9	2.4-Dimethylphenol	6600	ND	ן : ט
111-91-1	bis(2-Chloroethoxy)methane	6600	ND	ען
120-83-2	2,4-Dichlorophenol	6600	ND	ט'
120-82-1	1,2,4-Trichlorobenzene	6600	ND	ן יט
91-20-3	Naphthalene	6600	ND	ע
106-47-8	4-Chloroaniline	6600	ND	ן טּ
87-68-3	Hexachlorobutadiene	6600	ND	ן ט
59-50-7	4-Chloro-3-Methylphenol	6600	ND	ן ט
91-57-6			ND	U
77-47-4	Hexachlorocyclopentadiene	6600	ND	្រៃ [
88-06-2				ַ <u>"</u>
95-95-4	2.4.5-Trichlorophenol	34000	ND	ָ ט
91-58-7	2-Chloronaphthalene	6600	ND	ט
88-74-4	2-Nitroaniline	34000		υ.
131-11-3	Dimethylphthalate	6600	ND	U
208-96-8	Acenaphthylene	6600		ן ט :
606-20-2	2-Nitroaniline Dimethylphthalate Acenaphthylene 2,6-Dinitrotoluene	6600		U
99-09-2	3-Nicroaniline	34000	1	U
83-32-9	Acenaphthene	6600		U,
51-28-5	2,4-Dinitrophenol	34000		U.
100-02-7	Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol	34000		U
132-64-9	Dibenzofuran	0000		U
121-14-2	Dibenzofuran 2,4-Dinitrotoluene	6600		U
84-66-2	Diethylphthalate	6600		U.
7005-72-3	4-Chlorophenyl-phenylether_	6600		U
86-73-7	Fluorene	6600	ND	שׁ
				_

Project ID : ALASKA GASOLINE
Sample ID : 1
Matrix : SOIL Anametrix ID : 9605098-01 Lab File ID : MRY09801

Matrix : SOIL
Date Sampled : 05/08/96
Date Extracted : 05/13/96 % Moisture : 20.0
Dilution Factor : 20.0
Conc. Units : ug/Kg Amount Extracted: 30.0 g

Date Analyzed : 05/20/96 Instrument ID : msd4.i

Volume of Final Extract: 1 ml

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CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Į Q
	4 Mitaganilina	34000	ND	U
.00-01-6	4-Nitroaniline	34000	ND	ŭ:
34-52-1	4,6-Dinitro-2-methylphenol N-nitrosodiphenylamine_(1)	6600	ND	ָּטֹן:
6-30-6	N-nitrosodiphenylamine_(1/	6600	ND	ט
01-55-3	4-Bromophenyl-phenylether	6600	ND	ן ט
18-74-1	Hexachlorobenzene			שׁ
37-86-5	Pentachlorophenol	6600	ND	ן ט
35-01-8	Phenanthrene	6600	ND	ָטן:
L20-12-7	Anthracene Di-n-butylphthalate	6600	ND	บ
34 - 74 - 2	Di-n-butylphthalate		ND	שׁ
206-44-0	Fluoranthene	6600		
29 - 00-0	Pyrene	6600	ND	U
35-68-7	Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene	6600		ת.
91-94-1	3,3'-Dichlorobenzidine	13000		ū
56-55-3	Benzo(a)anthracene	6600	ND	U
218-01-9			ND	Ū
117-81-7	bis(2-Ethylhexyl)phthalate	13000		U
117-84-0	Di-n-octylphthalate	6600		U
205-99-2	Benzo(b) fluoranthene	6600		U
207-08-9				U
50-32-8	Benzo(a)pyrene	6600		U
193-39-5	Indeno(1,2,3-cd)pyrene	6600		Ü
53-70-3	Benzo(a) pyrene Indeno(1,2,3-cd) pyrene Dibenz(a,h) anthracene Benzo(g,h,i) perylene Benzyl Alcohol	6600		U
191-24-2	Benzo(q,h,i)perylene	6600		U
100-51-6	Benzyl Alcohol	6600		U
65-85-0	A BENZOIC ACIU	J 1000		U
62-75-9	N-Nitrosodimethylamine	6600		U
103-33-3	Azobenzene	[6600		U
92-87-5	Benzidine	34000	ND	ע
62-53-3	Aniline	6600	ND	U

Anametrix ID : BY13H2BA Lab File ID : BY13H2B1 Project ID : ALASKA GASOLINE Sample ID : SBLKBS

: SOIL Matrix

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Date Sampled:
Date Extracted: 05/13/96
Amount Extracted: 30.0 g
Date Analyzed: 05/20/96
Instrument ID: msd4.i % Moisture : 1.0
Dilution Factor : 1.0
Conc. Units : ug/Kg

Volume of Final Extract: 1 ml

		REPORTING	AMOUNT	1
CAS NO.	COMPOUND NAME	LIMIT	DETECTED	Q
108-95-2	Phenol	330	ND	ָט
111-44-4	hig (-2-Chloroethyl) Ether	330	ND	U
95-57-8	2-Chlorophenol	330	ND	ע
541-73-1	2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene	330	ND	U
106-46-7	1,4-Dichlorobenzene	330	ND	ן ט ן
95-50-1	1,2-Dichlorobenzene	330	ND	ט :
95-48-7	2-Methylphenol	330	ИD	\U ,
108-60-1	2-Methylphenol 2,2'-oxybis(1-Chloropropane)	330	ND	U
106-44-5	4-Methylphenol	330	ND	\ט'
621-64-7	N-Nitroso-di-n-propylamine	330	ND	ĺΩ.
67-72-1	Hexachloroethane Nitrobenzene	330	ND	U
98-95-3	Nitrobenzene	330	ND	ן ט
78-59-1	Isophorone	330	ND	[U]
88-75-5	Isophorone 2-Nitrophenol 2,4-Dimethylphenol bis(2-Chloroethoxy)methane	330	ND	U
105-67-9	2 4-Dimethylphenol	330	ND	U
111-91-1	bis(2-Chloroethoxy)methane	330	ND	ן ט'
120-83-2	2 4-Dichlorophenol	330	ND	U
120-83-2	2,4-Dichlorophenol 1,2,4-Trichlorobenzene	330	ND	ן ט י
91-20-3	Naphthalene	330	ND	ן ט
106-47-8	4-Chloroaniline	330	ND	\ט\
87-68-3	Hexachlorobutadiene	330	ND	ט
59-50-7	4-Chloro-3-Methylphenol		ND	ע'
91-57-6				ן ט
77-47-4			ND	ע
88-06-2	Hexachlorocyclopentadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2-Chloronaphthalene	330	ND	ן תו
95-95-4	2,4,6-Trichlorophenol	1700		שׁו
	2-Chloronaphthalene	330		שו
91-58-7				ט
88-74-4	2-Nitroaniline Dimethylphthalate	330		Ū
131-11-3	Agonaphthulene	330	ND	שׁ
208-96-8	Acenaphthylene 2,6-Dinitrotoluene	330	ND	Ü
606-20-2	2,6-Diffictocoldene	1700		υ
99-09-2	3-Nitroaniline	li de la companya de		שׁ
83-32-9	Acenaphthene	1700	ND	Ü
51-28-5	2,4-Dinitrophenoi	1700	ND	Ü
100-02-7	Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran 2,4-Dinitrotoluene	330	ND	Ü
132-64-9	Dibenzoruran	330	ND	Ū
121-14-2	2,4-DinitrotoLuene	330	I '	T T
84-66-2	l Diethvionthalate	330	ND	U
7005-72-3	4-Chlorophenyl-phenylether_		ND	U
86-73-7	Fluorene	330	את ו	J 0.

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

Anametrix ID : BY13H2BA Lab File ID : BY13H2B1 : ALASKA GASOLINE Project ID : ALASKA
Sample ID : SBLKBS

: SOIL Matrix

Date Sampled

Date Extracted : 05/13/96

Amount Extracted: 30.0 g
Date Analyzed: 05/20/96
Instrument ID: msd4.i % Moisture

Volume of Final Extract: 1 ml

100-01-6	Q	AMOUNT DETECTED	REPORTING LIMIT	COMPOUND NAME	CAS NO.
1700 ND ND ND ND ND ND ND	U	ND ND	1700	4-Nitroaniline	100 01 6
Anthracene 330 ND	Ū			4 6 Diritro-2-methylphenol	
Anthracene 330 ND	Ū			N nitrogodinhenylamine (1)	
Anthracene 330 ND	\u \			A Bromonboniil - phoniil other	
Anthracene 330 ND	l Ü			Howagh crobonzone	
Anthracene 330 ND	۱ŭ۰			Pentaghlorophenol	
Anthracene 330 ND	Ĭŭ;			Phononthrono	
85-68-7 Butylbenzylphthalate 330 ND 91-94-1 3,3'-Dichlorobenzidine 660 ND 56-55-3 Benzo(a) anthracene 330 ND 218-01-9 Chrysene 330 ND 117-81-7 bis(2-Ethylhexyl)phthalate 660 ND 117-84-0 Di-n-octylphthalate 330 ND 205-99-2 Benzo(b)fluoranthene 330 ND 207-08-9 Benzo(k)fluoranthene 330 ND 50-32-8 Benzo(a)pyrene 330 ND 193-39-5 Indeno(1,2,3-cd)pyrene 330 ND 191-24-2 Benzo(a,h)anthracene 330 ND 100-51-6 Benzyl Alcohol 330 ND 65-85-0 Benzoic Acid 1700 ND 62-75-9 N-Nitrosodimethylamine 330 ND 103-33-3 Azobenzene 330 ND 92-87-5 Benzidine 1700 ND	บี				
85-68-7 Butylbenzylphthalate 330 ND 91-94-1 3,3'-Dichlorobenzidine 660 ND 56-55-3 Benzo(a) anthracene 330 ND 218-01-9 Chrysene 330 ND 117-81-7 bis(2-Ethylhexyl)phthalate 660 ND 117-84-0 Di-n-octylphthalate 330 ND 205-99-2 Benzo(b)fluoranthene 330 ND 207-08-9 Benzo(k)fluoranthene 330 ND 50-32-8 Benzo(a)pyrene 330 ND 193-39-5 Indeno(1,2,3-cd)pyrene 330 ND 191-24-2 Benzo(a,h)anthracene 330 ND 100-51-6 Benzyl Alcohol 330 ND 65-85-0 Benzoic Acid 1700 ND 62-75-9 N-Nitrosodimethylamine 330 ND 103-33-3 Azobenzene 330 ND 92-87-5 Benzidine 1700 ND	ן ט		330	Anthracene	
85-68-7 Butylbenzylphthalate 330 ND 91-94-1 3,3'-Dichlorobenzidine 660 ND 56-55-3 Benzo(a) anthracene 330 ND 218-01-9 Chrysene 330 ND 117-81-7 bis(2-Ethylhexyl)phthalate 660 ND 117-84-0 Di-n-octylphthalate 330 ND 205-99-2 Benzo(b)fluoranthene 330 ND 207-08-9 Benzo(k)fluoranthene 330 ND 50-32-8 Benzo(a)pyrene 330 ND 193-39-5 Indeno(1,2,3-cd)pyrene 330 ND 191-24-2 Benzo(a,h)anthracene 330 ND 100-51-6 Benzyl Alcohol 330 ND 65-85-0 Benzoic Acid 1700 ND 62-75-9 N-Nitrosodimethylamine 330 ND 103-33-3 Azobenzene 330 ND 92-87-5 Benzidine 1700 ND	U		330	DI-H-DutyIphtharace	
Butylbenzylphthalate 330 ND ND ND ND ND ND ND ND	ŭ		330	Fluoranthene	
Benzo(a) anthracene	ا بن		330	pyrene	
Benzo(a) anthracene	וֹטַ וֹ		660	ButyIDenzyIphthatace	
Chrysene	Ü		330	3,3'-Dichioropenziume	
Di	Ü			Benzo (a) anthracene	
117-84-0 Di-n-octylphthalate 330 ND 205-99-2 Benzo(b) fluoranthene 330 ND 207-08-9 Benzo(k) fluoranthene 330 ND 50-32-8 Benzo(a) pyrene 330 ND 193-39-5 Indeno(1,2,3-cd) pyrene 330 ND 53-70-3 Dibenz(a,h) anthracene 330 ND 191-24-2 Benzo(g,h,i) perylene 330 ND 100-51-6 Benzyl Alcohol 330 ND 65-85-0 Benzoic Acid 1700 ND 62-75-9 N-Nitrosodimethylamine 330 ND 103-33-3 Azobenzene 330 ND Benzidine 1700 ND	ָּטׁ וֹ		550	Chrysene	
Benzo (b) fluoranthene 330 ND	Ŭ,		330	Dis(2-EthyThexy1)phthalace	
207-08-9 Benzo(k) fluoranthene 330 ND 50-32-8 Benzo(a) pyrene 330 ND 193-39-5 Indeno(1,2,3-cd) pyrene 330 ND 53-70-3 Dibenz(a,h) anthracene 330 ND 191-24-2 Benzo(g,h,i) perylene 330 ND 100-51-6 Benzyl Alcohol 330 ND 65-85-0 Benzoic Acid 1700 ND 62-75-9 N-Nitrosodimethylamine 330 ND 103-33-3 Azobenzene 330 ND 92-87-5 Benzidine 1700 ND	Ü		, 330	Di-n-octytphthatate	
Benzo (a) pyrene 330 ND ND	۱ ۵		330	Benzo (b) fluoranthene	
193-39-5 Indeno(1,2,3-cd)pyrene 330 ND 53-70-3 Dibenz(a,h)anthracene 330 ND 191-24-2 Benzo(g,h,i)perylene 330 ND 100-51-6 Benzyl Alcohol 330 ND 65-85-0 Benzoic Acid 1700 ND 62-75-9 N-Nitrosodimethylamine 330 ND 103-33-3 Azobenzene 330 ND 92-87-5 Benzidine 1700 ND	שׁן:		330	Benzo (k) Huoranchene	
53-70-3 Dibenz(a,h)anthracene 330 ND 191-24-2 Benzo(g,h,i)perylene 330 ND 100-51-6 Benzyl Alcohol 330 ND 65-85-0 Benzoic Acid 1700 ND 62-75-9 N-Nitrosodimethylamine 330 ND 103-33-3 Azobenzene 330 ND 92-87-5 Benzidine 1700 ND	ָטׁ :			Benzo (a) pyrene	
62-75-9	lΰ		330	Indeno(1,2,3-cd)pyrene	
62-75-9	ָּט		330	Dibenz(a, n) anthracene	
62-75-9	Ü		330	Benzo(g,n,1)perylene	
62-75-9	ָט ע		1700	Benzyi Alconoi	
103-33-3 Azobenzene 330 ND 1700 ND 1700 ND ND ND	ט		1/00	Benzoic Acid	
103-33-3 Azobenzene	ָט ט			N-Nitrosodimethylamine	
92-87-5 Benzidine 1700 ND	Ü			Azobenzene	
	ιυ: TJ			Benzidine	
62-53-3 Aniline 330 ND	0 ,	ND	330	Aniline	62-53 - 3

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	S1	S2	S3 (#PNI) (S4	S5 (2ED) #	S6 (WDD) #	S7	S8 #	TOT
	SAMPLE NO.	(NBZ)#	(FBP)#	(TPH)#	(PHL)#	(2FP)#	(TBP)#	#	#	OUT
01	SBLKBS	=== == 87	92	82	81	81	102			0
02	1	0D	ÕD	0D	0D	0D	0D			0
03	SLCSDZZ	78	78	73 72	77	68	0D 80 82			0
04	SLCSZZ	76	74	72	80	72	82			0
05										
06 07										<u> </u>
08										
09										
10						ļ 			l 	
11 12 13 14 15 16 17 18 20 21 22 23 24 25 27									<u> </u>	
13										
14										
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26						-				
27										
28 29 30		\ 							 	
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				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

: ALASKA GASOLINE Lab File ID : MY13H2B1/NY13H2B1

Project ID Sample ID : SBLKbS : SOIL Matrix

Date Sampled

Date Extracted : 05/13/96
Prep. Batch ID : hdy13x42
Date Analyzed : 05/20/96
Instrument ID : msd4.i

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

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

0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS:

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

ALE 4134 9609098 CHAIN OF CUSTODY RECORD JOB NO. PETROTEK LAB. NO. SAMPLE LOCATION/INFORMATION REMARKS slight oder bottom of wester oil p.t CHAIN OF CUSTODY RECORD Inchape to do 8270 only Bill+ report to AN/EN Po#4134 2 copies de report plans LAB TO NOTE - Y/N --- REMARKS RELINQUISHED BY (Signature) DATE/TIME RECEIVED BY (Signature) DATE/TIME RELINQUISHED BY RECEIVED BY (Signature) (Signature) DATE/TIME 5/8/96 7:00 7M PELINOUISHED BY RECEIVED-FOR LAB. BY



SAMPLE RECEIVING CHECKLIST

Workorder Number: 9605098	Client Project ID: _	ALASKA	A GAS
Cooler			
Shipping documentation present?	YES	NO	(N/A)
If YES, enter Carrier and Airbill #:			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: Intact Broken	•		
Temperature of sample(s) within range?	(YES)	NO	N/A
List temperatures of cooler(s): 3°			1
Note: If all samples taken within previous 4 hr, circle N/A and place	æ in		i (1
sample storage area as soon as possible.			
Samples			
Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: Intact Broken			
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	VES)	NO	
Condition of containers: Intact Broken			
If NO, were samples transferred to proper container(s)?			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody?			
Were container labels complete? (ID, date, time, preserv	ative) (YES)	NO	N/A
Were samples properly preserved?	YES	NO	(N/A)
If NO, was the preservative added at time of receipt?			
pH check of samples required at time of receipt?	YES	NO	
If YES, pH checked and recorded by:			
Sufficient amount of sample received for methods reque	sted? YES	NO	
If NO, has the client or PM been notified?			
Field blanks received with sample batch?	YES	NO	(N/A)
Trip blanks received with sample batch?	YES	NO	NA
Chain of Custody			
Chain of custody form received with samples?	YES	NO	
Has it been filled out completely and in ink?	MES	NO	
Sample IDs on chain of custody form agree with labels?	YES	NO	
Number of containers on chain agree with number receiv		NO	
Analysis methods specified?	YES	NO	
Sampling date and time indicated?	YES	MO	
Proper signatures of sampler, courier and custodian in	YES	NO	
appropriate spaces? With time and date?			
Turnaround time? Standard Rush			,
Any NO responses and/or any BROKEN that was checked must be	detailed in a Corrective	e Action Fo	orm.
Sample Custodian: HH Date: 9/10/96 Project 1			

in Elimod ClEnturon main a



AN / EN Inc

96 NOV -7 PH 1: 52

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: Date Received by Lab: Total Number of Samples:

ALASKA GASOLINE

05/10/96

Sample Matrix:

SOIL(7) & WATER(1)

<u>Volatile Organics</u> 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 (Gasóline, 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.

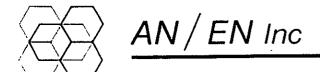
Organochlorine Pesticides are analyzed in accordance with EPA Test Methods for Evaluating Solid Waste, (SW846), Third edition, July 1992. EPA Method 3550 (soil) or EPA Method 3510 (water) is used for sample extraction/preparation. Method 8080 (Organochlorine Pesticides GC-ECD/ECD) is used for the analysis.

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,



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method:

8010

Laboratory Number: 4146-08 Date Sampled:

05/09/96

Date Received: Matrix:

05/10/96

Water

Sample I.D.:

W.O. Pit

Project:

Alaska Gas

Dilution:

Date Analyzed:

05/15/96

Analyst:

dy

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

CAS#	Analyte	Conc.	Q PQL	
74-87-3	Chloromethane	8.0	0.5	i
75-01-4	Vinyl chloride	ND	0.5	
74-83-9	Bromomethane	ND	0.5	
75-00-3	Chloroethane	ND	0.5	ı
75-69-4	Trichlorofluoromethane	ND	0.5	
75-35-4	1,1-Dichloroethene	ND	0.5	ı
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	1
56-23-5	Carbon tetrachloride	ND	0.5	
107-06-2	1,2-Dichloroethane	ND	0.5	
79-01-6	Trichloroethene	ND	0.5	1
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	1
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	1
541-73-1	1,3-Dichlorobenzene	ND	0.5	
106-46-7	1,4-Dichlorobenzene	ND	0.5	1
95-50-1	1,2-Dichlorobenzene	ND	0.5	i I

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

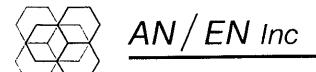
PQL = Practical Quantitation Limit

ND = None Detected at or above the PQL

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SAMPLE RESULTS



VOLATILE HALOGENATED ORGANICS BY GC/ELCD

EPA Method:

8010

Laboratory Number: 4146-08

05/09/96

Date Sampled: Date Received:

Matrix:

05/10/96 Water

Sample I.D.:

W.O. Pit

Project:

Alaska Gas

Dilution:

Date Analyzed: 05/15/96

Analyst:

die

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

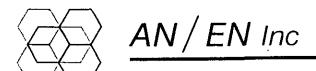
CAS#	Analyte	Conc.	Q PQL
74-87-3	Chloromethane	0.8	0.5
75-01-4	Vinyl chloride	ND	0.5
74-83-9	Bromomethane	ND	0.5
75-00-3	Chloroethane	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
76-13-1	Trichlorotrifluoroethane	ND	0.5
75-09 - 2	Methylene chloride	ND	0.5
156-60-5	trans-1,2-Dichloroethene	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: Matrix:

Water

N/A

Sample I.D.:

Method Blank

Project:

Alaska Gas

Dilution:

Date Analyzed: 05/15/96

Analyst:

di(

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

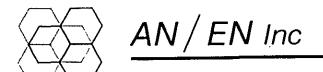
CAS#	Analyte	Conc.	Q PQL
74-87-3	Chloromethane	ND	0.5
75-01-4	Vinyl chloride	ND	0.5
74-83-9	Bromomethane	ND	0.5
75-00-3	Chloroethane	ND	0.5
75-69-4	Trichlorofluoromethane	ND	0.5
75-35-4	1,1-Dichloroethene	ND	0.5
76-13-1	Trichlorotrifluoroethane	ND	0.5
75-09-2	Methylene chloride	ND	0.5
156-60-5	trans-1,2-Dichloroethene	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	LCS	LCS	%Rec
	Added	Conc	Rec	Limits
1,1-Dichloroethene 1,2-Dichloroethane Trichloroethene Tetrachloroethene Chlorobenzene	10	9.6	96%	75-125
	10	9.7	97%	75-125
	10	9.5	95%	75-125
	10	10.6	106%	75-125
	10	9.2	92%	75-125
Surrogates 3-Chloro-1-propene 4-Chlorotoluene			96% 97%	80-120 80-120

^{* =} Values outside of QC limits.

Spike Recovery:0 out of 5 outside limits

QC-LAB CONTROL SAMPLE



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

Client Project / I.D..

ALASKA GASOLINE

Matrix:

Soil

Date Received

05/10/96

Analyst - M

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.

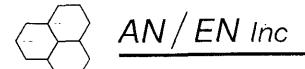
Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste (SW845), 3rd Ed., July 1992 Method 5030 (Purge & Trap)

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



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 fc⁻ 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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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).

Conc.	PQL
ND	1.0
ND	0.5
ND	50.
	ND ND ND ND ND

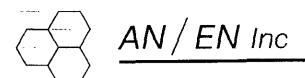
PQL = Practical Quantitation Limit.

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 & Tris 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 acco.dance 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

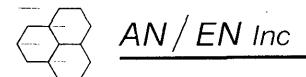
Surrogates	LSC-8020M	Batch ID:	0513-04	
a,a,a-TFT-FID			100%	73-126
4-BFB-FID			104%	67-146
4-BFB-PID			105%	82-119
Surrogates	LSC-GASOLINE	Batch ID:	0513-05	
a,a,a-TFT-FID			92%	73-126
4-BFB-FID			125%	67-146
4-BFB-PID			108%	82-119

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LCS Recovery: 0 out of 7 outside limits.



^{* =} Values outside of QC limits.



Land Dog & Egyrogamen er Dremisin

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%	67-148
4-BFB-PID			107%	82-119

LCS Recovery: 0 out of 7 outside limits.

 ⁼ Values outside of QC limits.



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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).

				Spiked	Spiked					
		Spike	Spike	Sample	Sample					
	Sample	Added	Added	Conc.	Conc.	%Rec.	%Rec.		%Rec.	RPD
ANALYTE	Conc.	MS	MSD	MS	MDS	MS	MDS	RPD	Limits	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.

CHAIN OF CUSTODY RECORD

AE4146

JOB NO. LAB. NO. DATE 5-9	2-96 NO.	PROJECT NAM SAMPLER (SIGN SAMPL	iska Ga Paturay L. C	S TION/INFORMAT	TION	NO. OF CONTAINERS	7 D MALYSIS	101 101	BTEVO		7			SEALEN	PETROTEK P.O. Box 612317 Sen Jose, California 95161 REMARKS
59.K	#/	Pispens	er #2 er #3 er #5	101		/	V		1						Some Olor
5-9-96 #	2	Dispense	er #2	-02	,	/	V		1						Some Odor
59.96 # 59.96 # 59.96 # 59.96 # 59.96 #	+3	Dispense	er #3	_03		/_	V	-4	V						No Odor
5-9-96 #	[‡] 5	Pispers	ser #5	-04		/	V		V						Some Odor
5-9-96#	6	Dispens	er#6	sh		/	V		V						No Odor
5.9.94.7	7	Trench	#7	عام	,	1	V								Some Odor
5-9,961	#8	Treach	ı #8	0	l	/	V		V	~					Some Odor
5.996	9	waste		7\ 1 hbs		1	V	V	0		V				
11	10	10	duf	Ilite	Ą	/	V	V		S	V			6	Daly Sumple for 8270.
11	11	//		06 40ml	U <i>N</i> A	,	/	V	0		V				Biex-GAS (1 Diese was previously run on this sample, see Ale 4/31
11	12	//	,			j	1	V	V	V				1	on this sample, See AlE 4131 Nov
11/1	3	11				/	v	V	V	1	1				
RELINGUISHE	D BY	(Signature) D	ATE/TIME -10/46 8/7/1	RECEIVED BY		,	LAE								MARKS
	with	7	10 966 8:30	RECEIVED BY	(Signat	ture)	•		nct Bill	14 p	epo	to c	to to	S Wa	1270 only U/EN, Inc les of report please
RÉLINQUISHE	DABA ()	(Signature) DA	ATE/TIME		10/96 0330	nte)		+ 	U 6 5/10	146	146		L 0.	OP1	les of report please

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

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, 1 e., not 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

Mulge Date Chemist Date

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

Project ID : ALASKA GAS Sample ID : 9,10 : WATTER Anametrix ID : 9605100-01 Lab File ID : MPY10001

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

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

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

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

Anametrix ID : 9605100-01 Lab File ID : MPY10001 Project ID Sample ID : ALASKA GAS : 9,10

WATER Matrix Date Sampled : 05/09/96
Date Extracted : 05/13/96
Amount Extracted : 1000 mL

% Moisture

Dilution Factor : Date Analyzed : 05/17/96
Instrument ID : msd4.i
Volume of Final Extract: 1 ml Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	50	ND	Ū
534 <i>-</i> 52-1	4-Nitroaniline 4,6-Dinitro-2-methylphenol N-nitrosodiphenylamine (1) 4-Bromophenyl-phenylether	50	ND	U
86-30-6	N-nitrosodiphenylamine (1)	10	ND	ע '
101-55-3	4-Bromophenyl-phenylether	10	ND	U ·
118-74-1	Hexachlorobenzene Pentachlorophenol Phenanthrene	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	Anthracene Di-n-butylphthalate Fluoranthene	. 10	ND	שו
206-44-0	Fluoranthene	10	ND	U
129-00-0	Durana		ND	U.
85-68 - 7	Butvlbenzvlphthalate	10	ND	υ.
91-94-1	3.3'-Dichlorobenzidine	20	ND	U
56-55-3	Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene	10	ND	U
218-01-9	1 Chrysene	I IU	ND	U
117-81-7	his/2-Ethylhexyl)phthalate	20	ND	U
117-84-0	l Di-n-octvlphthalate	1.0	ND	ע
205-99-2	Benzo(b) fluoranthene Benzo(k) fluoranthene	1.0	ND	J.D.
207-08-9	Benzo(k) fluoranthene	1.0	ND	U
50-32-8	Benzo(a) pyrene Indeno(1,2,3-cd) pyrene	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND	U
53-70-3	Dibenz(a,n)anthracene	1 10	ND	U
191-24-2	Benzo(g,h,i)perylene	10	ND	U
100-51-6	Benzyl Alcohol	10	ND	Ŭ
65-85-0	Benzoic Acid] 30	ND	U
62-75-9	N-Nitrosodimethylamine	10	ND	U
103-33-3	Azobenzene Benzidine	10	ND	U
92-87-5	Benzidine	50	ND	ע
62-53-3	Aniline	10	ND	ט

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

Anametrix ID : 9605100-01 Lab File ID : MXY10001

Project ID : ALASKA GAS
Sample ID : 9,10RX
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/20/96
Amount Extracted : 1000 mL

% Moisture Date Analyzed : 05/23/96 Instrument ID : msd3.i Volume of Final Extract: Dilution Factor :

Conc. Units : ug/L 1 ml

REPORTING TUITOMA LIMIT DETECTED COMPOUND NAME O. CAS NO. U ND Phenol 108-95-2 bis(-2-Chloroethyl)Ether 10 ND U 111-44-4 U. 2-Chlorophenol_ 10 ND 95-57-8 IJ 541-73-1 1,3-Dichlorobenzene 10 ND 1,4-Dichlorobenzene 10 ND IJ 106-46-7 1,2-Dichlorobenzene 10 ND IJ 95-50-1 2-Methylphenol 10 ND U 95-48-7 2,2'-oxybis(1-Chloropropane) 10 ND U 108-60-1 4-Methylphenol 10 ND U 106-44-5 N-Nitroso-di-n-propylamine 10 ND U 621-64-7 Hexachloroethane____ 10 ND \mathbf{U} 67-72-1 Nitrobenzene____ 10 ND U 98-95-3 2-Nitrophenol
2,4-Dimethylphenol
bis(2-Chlorie 10 ND U 78-59-1 10 ND U 88-75-5 10 ND Ũ 105-67-9 bis (2-Chloroethoxy) methane 10 ND U 111-91-1 2,4-Dichlorophenol 10 NDU 120-83-2 10 U 1,2,4-Trichlorobenzene ND120-82-1 1.0 U Naphthalene ND91-20-3 4-Chloroaniline 10 U ND 106-47-8 U Hexachlorobutadiene 10 ND 87-68-3 4-Chloro-3-Methylphenol____ 10 ND U 59-50-7 10 U 91-57-6 2-Methylnaphthalene ND Hexachlorocyclopentadiene____ 10 U ND 77-47-4 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 10 U ND 88-06-2 50 U ND 95-95-4 2-Chloronaphthalene 10 ND U 91 - 58 - 750 U. 88-74-4 2-Nitroaniline ND 10 U Dimethylphthalate_____ ND 131-11-3 Ü 10 Acenaphthylene__ 2,6-Dinitrotoluene ND 208-96-8 10 U ND 606-20-2 50 U 3-Nitroaniline____ ND 99-09-2 Acenaphthene 10 U 83-32-9 Acenaphtnene
2,4-Dinitrophenol ND 50 U ND 51-28-5 4-Nitrophenol_____ 50 U ' ND 100-02-7

10

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Dibenzofuran -

Fluorene

2,4-Dinitrotoluene_____

Diethylphthalate 4-Chlorophenyl-phenylether_

132-64-9

121-14-2

84-66-2

86-73-7

7005-72-3

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

Anametrix ID : 9605100-01 Lab File ID : MXY10001 : ALASKA GAS Project ID Sample ID : 9,10RX

: WATER Matrix Date Sampled : 05/09/96 Date Extracted : 05/20/96

Amount Extracted: 1000 mL % Moisture

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

Date Analyzed : 05/23/96 Instrument ID : msd3.i

Volume of Final Extract: 1 ml

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100-01-6	4-Nitroaniline	50	ND	ם
534-52-1	4 6-Dinitro-2-methylphenol	50	ND	ט '
86-30-6	N-nitrosodiphenvlamine (1)	10	ND	∖ט
101-55-3	N-nitrosodiphenylamine (1) 4-Bromophenyl-phenylether	10	ND	U
118-74-1	Hexachlorobenzene	10	ND	שׁ
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	Dyrene	10	ND	U
85-68-7	Butvlbenzvlphthalate	1.0	ND	U
91-94-1	Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene	20	ND	U
56-55-3	Benzo(a) anthracene	10	ND	U
218-01-9	Chrysene	1 10	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	20		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		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	Ü
100-51-6	Benzyl Alcohol	10	ND	U
65-85-0	Benzoic Acid	50		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	ÎTT

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

Anametrix ID : 9605110-01 Lab File ID : MYY10001

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

Volume of Final Extract: 1 ml

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

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

Anametrix ID : 9605110-01 Project ID : ALASKA GAS Sample ID : 9,10RXRE Lab File ID : MYY10001

Sample ID : 9,10RXRE
Matrix : WATER
Date Sampled : 05/09/96
Date Extracted : 05/20/96
Amount Extracted : 1000 mL

% Moisture Date Analyzed : 05/23/96
Instrument ID : msd3.i
Volume of Final Extract: Conc. Units : ug/L

1 ml

REPORTING TUUOMA COMPOUND NAME LIMIT DETECTED 0 CAS NO. U ND 4-Nitroaniline 100-01-6 4,6-Dinitro-2-methylphenol___ 50 ND U 534-52-1 N-nitrosodiphenylamine_(1)___ 10 NDU 86-30-6 4-Bromophenyl-phenylether____ 10 ND Ū 101-55-3 Hexachlorobenzene____ U 10 ND 118-74-1 U Pentachlorophenol____ 10 ND 87-86-5 U Phenanthrene 10 ND 85-01-8 10 NDU 120-12-7 Anthracene U 10 ND 84-74-2 U 10 ND Fluoranthene 206-44-0 U 10 ND 129-00-0 Pyrene Pyrene
Butylbenzylphthalate
3,3'-Dichlorobenzidine 10 ND U 85-68-7 20 NDU 91-94-1 10 ND U Benzo(a)anthracene _____ 56-55-3 10 ND U 218-01-9 Chrysene bis(2-Ethylhexyl)phthalate 20 U ND 117-81-7 Di-n-octylphthalate
Benzo(b) fluoranthene 10 ND U 117-84-0 10 ND U 205-99-2 10 ND U 207-08-9 Benzo(k)fluoranthene 10 U ND Benzo(a)pyrene 50-32-8 Indeno(1,2,3-cd)pyrene______ Dibenz(a,h)anthracene_____ Benzo(g,h,i)perylene_____ 10 ND U 193-39-5 10 ND U 53-70-3 10 ND Ü 191-24-2 10 Benzyl Alcohol____ ND U 100-51-6 50 Benzoic Acid ND U 65-85-0 10 ND U 62-75-9 10 ND U Azobenzene_____ 103-33-3 Benzidine _____ 10 NDU 92-87-5 10 ND U 4165-61-1 Aniline

(1) - Cannot be separated from Diphenylamine

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

Project ID Sample ID Anametrix ID : BY1311B1 : ALASKA GAS Lab File ID : BY1311B1

: SBLKKS : WATER Matrix

Date Extracted :

Date Extracted : 05/13/96
Amount Extracted : 1000 mL
Date Analyzed : 05/17/96
Instrument ID : msd4.i % Moisture % Moisture : ____ Dilution Factor : ____

Conc. Units : ug/L Instrument ID : msd4.i
Volume of Final Extract: 1 ml

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
108-95-2	Phenol	10	ND	ט
111-44-4	bis(-2-Chloroethyl)Ether	10	ND	U
95-57-8	2 Chlemonhonel	10	ND	U
541-73-1	1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene	10	ND	lσ
106-46-7	1.4-Dichlorobenzene	10	ND	טן
95-50-1	1.2-Dichlorobenzene	10	ND	ַט
95-48-7	2-Methylphenol	10	ND	U.
108-60-1	2-Methylphenol 2,2'-oxybis(1-Chloropropane)	10	ND	U
106-44-5	I 4-MernyIbberol	T U I	ND	lσ
621-64-7	N-Nitroso-di-n-propylamine_	10	ND	שו
67-72-1	Hexachloroethane	10	ND	lū
98-95-3	HexachloroethaneNitrobenzene	10	ND	Ü
78-59-1	Isophorone	10	ND	ĺΰ
78-39-1 88-75-5	2-Nitrophenol	10	ND	ĺΰ
105-67-9	2 4-Dimethylphenol	10	ND	اَت
111-91-1	bis(2-Chloroethoxy) methane	l īŏl	ND	lΰ
120-83-2		101	ND	U
120-83-2	1,2,4-Trichlorobenzene	10	ND	ĺΰ
191-20-3	Naphthalene	10	ND	ΙŬ
106-47-8	4-Chloroaniline	10	ND	Ü
87-68-3	Hexachlorobutadiene	10	ND	Ιŭ
	4-Chloro-3-Methylphenol	10	ND	Ιŭ
59-50-7 91-57-6	2-Methylnaphthalene	10	ND	ΙŬ
177-47-4	Hexachlorocyclopentadiene	10	ND	ΙŬ
88-06-2	2,4,6-Trichlorophenol	10	ND	ΙŬ
	2,4,5-Trichlorophenol	50	ND	Ιŭ
95-95-4	2-Chloronaphthalene	10	ND	Ιŭ
91-58-7	2-Nitroaniline	50	ND	ΙŬ
88-74-4 131-11-3	Dimethylphthalate	10	ND	ΙŪ
208-96-8		l īŏ	ND	ΙŬ
606-20-2	Acenaphthylene2,6-Dinitrotoluene	10	ND	Ŭ
	3-Nitroaniline	50	ND	Ū
99-09-2 83-32-9		10	ND	ΙŬ
	Acenaphthene 2,4-Dinitrophenol	50	ND	ΙŬ
51-28-5	4-Nitrophenol	50	ND	ΙŬ
100-02-7	4-Nitrophenol Dibenzofuran	10	ND	ΰ
132-64-9	Dibenzofuran	10	ND	U
121-14-2	Diethylphthalate	10	ND	Ŭ
84-66-2	4-Chlorophenyl-phenylether_	10	ND	Ιŭ
7005-72-3	Fluorene	10	ND	lŭ
86-73-7	trnorene	. 1	1	1

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

Anametrix ID : BY1311B1 Lab File ID : BY1311B1 : ALASKA GAS Project ID 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 % Moisture Dilution Factor :

Conc. Units : ug/L

CAS NO.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
100 01 6	4-Nitroaniline	50	ND	บ
100-01-6	4,6-Dinitro-2-methylphenol	50	ND	ΰ
534-52-1	N-nitrosodiphenylamine (1)		ND	Ŭ
36-30-6	4-Bromophenyl-phenylether		ND	Ŭ
101-55-3	Hexachlorobenzene	10	ND	Ŭ
118-74-1	Restachlorophonol	10	ND	Ιŭ
8 7- 86-5	Pentachlorophenol Phenanthrene	10	ND ND	Ŭ.
85-01-8	Phenanthrene	10	ND	Ιŭ
120-12-7	Anthracene Di-n-butylphthalate	10	ND	Ϊ́υ
84-74-2	Di-n-butyiphthatate	10	ND	Ū
206-44-0	Fluoranthene	10	ND	Ū
129-00-0	Pyrene	10	ND ND	Ū
85-68-7	Butylbenzylphthalate 3,3'-Dichlorobenzidine	20	ND	Ü
91-94-1	3,3'-DICHIOLODGHZIGIHE_	10	ND	lΰ
56-55-3	Benzo(a) anthracene	10	ND	lΰ
218-01-9	Chrysene bis(2-Ethylhexyl)phthalate_	20	ND	lΰ
117-81-7	DIS(2-EthyThexy1)phthatace	10	ND	lΰ
117-84-0	Di-n-octylphthalate Benzo(b) fluoranthene	10	ND ND	lΰ
205-99-2	Benzo (b) Fluoranthene	10	ND ND	۳
207-08-9	Benzo(k) fluoranthene		ND ND	שׁן
50-32-8	Benzo(a) pyrene Indeno(1,2,3-cd) pyrene	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	ND	וזן
53-70-3	Dibenz (a, h) anthracene	10	ND ND	บ็
191-24-2	Benzo(g,h,i)perylene	10	ND	บ็
100-51-6	Benzyl Alcohol	50	ND ND	บี
65 - 85-0	Benzoic Acid			lβ
62-75-9	N-Nitrosodimethylamine	10		שׁן
103-33-3	Azobenzene	10	:	ט
92-87-5	Benzidine	50	ND	lti
62-53-3	Aniline	10	ND	ĮŪ

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

Anametrix ID : BY2011B1 Lab File ID : BY2011B1 Project ID Sample ID : ALASKA GAS : SBLKK2

: WATER Matrix

Date Sampled Date Extracted : 05/20/96

% Moisture Amount Extracted: 1000 mL Date Analyzed : 05/23/96
Instrument ID : msd3.i Dilution Factor:

Conc. Units : ug/L Volume of Final Extract: 1 ml

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

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

Anametrix ID : BY2011B1 Lab File ID : BY2011B1 : ALASKA GAS Project ID Sample ID : SBLKK2

Matrix : WATER

Date Sampled

Date Extracted : 05/20/96

% Moisture Amount Extracted: 1000 mL Date Analyzed : 05/23/96 Instrument ID : msd3.i Dilution Factor : Conc. Units : ug/L

Instrument ID : msd3.i Volume of Final Extract: 1 ml

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 N-nitrosodiphenylamine (1) 4-Bromophenyl-phenylether	50	ND	U
86-30-6	N-nitrosodiphenylamine (1)	10	ND	lυ
101-55-3	4-Bromophenyl-phenylether	10	ND	U
118-74-1	Hexachlorobenzene	10	ND	U
87-86-5	Hexachlorobenzene Pentachlorophenol	10	ND	Ü
85-01-8	Phenanthrene	10	ND	υ
120-12-7	Anthracene	10	ND	U
84-74-2	Anthracene Di-n-butylphthalate	10	ND	U
206-44-0	Fluoranthene	10	ND	U
129-00-0	Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene	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	his(2-Ethylhexyl)phthalate	20	ND	U
117-84-0	Di-n-octylphthalate Benzo(b) fluoranthene	10	ND	U
205-99-2	Benzo(b) fluoranthene	10	ND	U
207-08-9	Renga(k) fluoranthene	1 101	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	Benzo(a) pyrene Indeno(1,2,3-cd) pyrene Dibenz(a,h) anthracene Benzo(g,h,i) perylene Benzyl Alcohol Benzoic Acid	10	ND	Ü
65-85-0			ND	ā
62-75-9	N-Nitrosodimethylamine	10	ND	Ω̈́
103-33-3	AzobenzeneBenzidine	10	ND	ŭ
92-87-5	Benzidine	10	ND	ū
4165-61-1	Aniline	10	ND	U

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

Project ID Matřix

: ALASKA GAS : WATER

Anametrix ID : 9605100

1	EPA	S1	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 #	S8 #	TOT
-	SAMPLE NO.	(NBZ)#	(FBF)#	((500)#	(255/#	# ±2	# ======	, #1	===
0.1	======== SBLKKS	===== 70	81	63	76	70	93			0
01 02	SLCSJ1	70	77	61	73	70	87			ŏ
03	SLCSD1	75	77	61 63	75	71	93			ŏ
04	9,10	72	84	20*	79	72	81.			1
04 05	SBLKK2	86	82	77	78	74	81			0
06	SLCSKB	86	83	77	79	78	83 82			0
07	SLCSD3A	84	82	75	76	73	82			0
80	9,10RX	83	80	30*	76	70	77		·	1
08 09 10	9,10RXRE	82	82	33	77	70	76			0
10	<u> </u>		l							\
11 12 13 14 15										
12					-					
1.0						l ———	l ———			
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17 18 19 20 21 22 23 24 25 26 27 28										
30				.		l	l		l	1

				QC LIMITS
S1	(NBZ)	=	Nitrobenzene-d5	(35-114)
Ş2	(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

: ALASKA GAS Lab File ID : MY1311B1/NY1311B1

Project ID Sample ID : SBLKKS : WATER Matrix

Date Sampled

Date Extracted : 05/13/96 Prep. Batch ID : 1dy13x21 Date Analyzed : 05/17/96 Instrument ID : msd4.i

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
		l	l	l	l

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

: ALASKA GAS Project ID Sample ID : SBLKK2

: WATER

Lab File ID : MY2011B1/NY2011B1

Matrix Date Sampled

Date Extracted	:	05/20/96
Prep. Batch ID	:	1sy20x21
Date Analyzed	:	05/23/96
Instrument ID	:	msd3.i

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
		l		l	l

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LI RPD	MITS 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	4.3	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			l	

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

COMMENTS:

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

9405100

CHAIN OF CUSTODY RECORD

NE4146

. [JOB NO.		PROJECT NAME		S	T	, . ,	/_	7	7	/	7		· ·
	LAB. NO.	·	SAMPLER (Signature)	5	CONTAINERS	ANALYSIS	9/		$\times /$	7	\mathcal{I}		SEALFRE	PETROTEK P.O. Box 612317 P.O. Box 612317
			Rell.C		OF CON	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				J.			AL	P.O. Box 812317 Sen Jose, California 95181
	DIF	9-96 No.	SAMPLE LOCAT	ON/INFORMATION	ģ	1	<u> </u>		13		}	//	SE	REMARKS
	59.9C	#1	Pispenser #1		/_	V	<u> </u>	V						Some Odor
		11	Pispenser #1 Dispenser #2		1	V		V	_					Some Odor
2	5-9-96	#3	Dispenser #3		Í	V		V						No Odor
S	5-9-96	#5	Dispenser #5		1	V		V						Some Olor
RE	5-9-96	#2 #3 #5	Dispenser #3 Dispenser #5 Dispenser #6		1	V		V	_					No Odor
CUSTODY	5.9.9	#1	Trench #7		1	V		V						Some Olor
STO	5-9.91	#8	Treach #8		1	V		V						Some Odor
S	5.996	9	waste oil nit	- \ \ \.h.	1	V	V	V	V	V				
씽	<i>(1)</i>	10	10 dup	1 liter	j	11	11		1	0			/	Daly I Sumple For 8270
CHAIN OF C	<i>['</i>	11	11	40ml USH	,	1	1/	1	V.	V				My (supression
핑	//	12	//	(3 M2 (704)	<i>j</i>	11	V	V	1					
	11	13	//		,	v	v	i	1	V				
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,	RELINGUIS	HED BY	(Signature) DATE/TIME 5-10-26	RECEIVED BY (Sign	ature)	LA								MARKS
	RELINQUIS	HED BY	(Signature) DATE/TIME	RECEIVED BY (Sign	ature)	<i>y</i>	}	∇(() > +	1648) P =	to	tvo	S	1270 only U/EN, Inc les of report please
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	<u>, </u>		(organization)	RECEIVED FOR LAB. BY Sign 10/46 0830	2.018)	l	,	5/1	0/46	' ' ((, 0	بد ريار	71	185 OT YEPOVI PIEUSE



SAMPLE RECEIVING CHECKLIST

Workorder Number: 9605100 C	lient Project ID:	ALASK	A GAS
Cooler			
Shipping documentation present?	YES	МО	N/A
If YES, enter Carrier and Airbill #:			
Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition: Intact Broken			
Temperature of sample(s) within range?	(YES)	NO	N/A
List temperatures of cooler(s).			
Note: If all samples taken within previous 4 hr, circle N/A and place	e in		
sample storage area as soon as possible.			
Samples	1.70	110	
Chain of custody seal present for each container?	YES	NO	CN/A)
Condition: Intact Broken			
Samples arrived within holding time?	YES	NO	N/A
Samples in proper containers for methods requested?	YES	NO	'
Condition of containers: Intact Broken			
If NO, were samples transferred to proper container(s)?			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody?			
Were container labels complete? (ID, date, time, preserva		NO	N/A
Were samples properly preserved?	YES	NO	N/A
If NO, was the preservative added at time of receipt?			
pH check of samples required at time of receipt?	YES	MO	
If YES, pH checked and recorded by:			<u> </u>
Sufficient amount of sample received for methods reques	ted? ES	NO	
If NO, has the client or PM been notified?			<u> </u>
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?	(ES)	NO	
Sample IDs on chain of custody form agree with labels?	YES	NO	
Number of containers on chain agree with number receiv	red? YES	NO	
Analysis methods specified?	(YES)	NO	
Sampling date and time indicated?	YES	MO	
Proper signatures of sampler, courier and custodian in	(YES)	NO	
appropriate spaces? With time and date?			
Turnaround time? Standard Rush			
Any NO responses and/or any BROKEN that was checked must be	detailed in a Correcti	ve Action I	orm.
Sample Custodian: HH Date: 9/10/96 Project I	Manager: (II)	Date: 🕸	13-46

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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: Date Received by Lab:

Total Number of Samples: Sample Matrix:

ALASKA GASOLINE

05/21/96

WATER

<u>Volatile Organics</u> 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.

<u>PTEX</u> is analyzed in accordance with EPA Test Methods for Fvaluating 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.

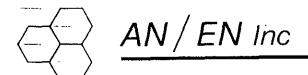
AN/EN, Inc. is accredited by the California Department of Health Services; Certificate Number 1183 (original issue May 7,1990). The DHS- Environmental Laboratory Accreditation Program can be reached at (510) 540-2800.

Complete report consists of 5 pages.

Reviewed and Approved:

Laurie Glantz-Murphy,

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



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

Client Project / I.D.:

ALASKA GASOLINE

Laboratory I.D.:

4174-01W

Batch I.D.:

0522-19.D

Date Sampled:

05/20/96

Date Received:

05/21/96

Matrix:

Water

Sample I.D.:

TÄNK PIT

WATER

25

Date Analyzed:

05/08/96

Dilution:

Analyst: /M

Concentration of sample expressed as ug/L (pp

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.

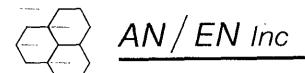
Surrogates	Recovery	Limits
a,a,a-TFT(FID)	92%	64-129
4-BFB(FID)	95%	55-151
4-BFB(PID)	100%	68-137

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.

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

^{*} Has not been confirmed using GC/MS.



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.

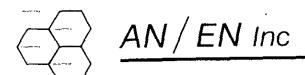
Surrogates	Recovery	Limits
a,a,a-TFT(FID)	104%	73-126
4-BFB(FID)	106%	67-146
4-BFB(PID)	101%	82-119

Volatile Aromatics are analyzed in accordance with EPA Test Methods for Evaluation Solid Waste (SW846), 3rd Ed. July 1992 Method 5030 (Purge & Trus 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:

05/08/96

Expressed as mass (ng).

	Amount	Amount	LCS	%Rec
Analyte	Added	Found	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

LCS Recovery: 0 out of 7 outside limits.

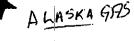
^{* =} Values outside of QC limits.

CHAIN OF CUSTODY RECORD JOB NO. PROJECT NAME LAB. NO. FRED NATTLEM PC SAMPLE LOCATION/INFORMATION REMARKS TANK PIT CWATER CHAIN OF CUSTODY RECORD RELINQUISHED BY REDEIVED BY (Signature) DATE/TIME LAB TO NOTE - Y/N -- PREMARKS (Signature) 5-21-96 15:00 RELINQUISHED BY (Signature) DATE/TIME (Signature) RELINQUISHED BY (Signature) DATE/TIME RECEIVED FOR LAB. BY (Signature)

CHAIN OF CUSTODY RECORD

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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

This report consists of gages.

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.

Department Supervisor

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: MW

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	

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: 500 Supervisor: MW

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	

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

(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: > -

Supervisor:

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	

CHAIN OF CUSTODY RECORD

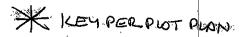
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forms/newser doe					T.



ENVIRONMENTAL PROTECTION

96 NOV -7 PM 1:52



Inchcape Testing Services Environmental Laboratories

1961 Concourse Drive Suite E San Jose, CA 95151 Tel: 408-432-8192 Fax: 408-452-8198

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 :

ing Bampies were	CLIENT SAMPLE ID
ANAMETRIX ID	
9610066- 1 9610066- 2	STOCPLE1 STOCPLE2
9610000 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

10/15 96

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 un analyte indicates probable matrix effects and interferences for that analyte.

Qualifiers (Q)

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

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

SAN JOSE LABORATORIES (408) 432-8192

METHOD BLANK REPORT

ITS-SJ Sample ID. BO166EA

... 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: MM

ITS-SJ Sample ID	Cilent Sample ID	Prep. Method	instr.	Date Sampled	Date Propared	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	<u> </u>

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: 5°C

Supervisor: Mh

Anaiyte	Prep. Method	Analytical Method	instr.	Date Prepared	Date Analyzed	DII. Factor	Units	Reporting Limit	Results	Q
Lead-STLC	CWET	6010A	IÇP2	10/10/96	10/13/96	10	mg/L	0.40	ND _	

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:د ک Supervisor: M

Analyte	Prop. Method	Prep. Batch	Analyt. Method	instr.	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	a
it ead-STLC	CWET	14167	6010A	ICP2	10/10/96	10/13/96	10	mg/L	2.5	2.5	0.0	

- 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, 5°c

Supervisor: Mu

Anslyte	Prep.	Analyt. Method	Instr.	Date Prepared	Date Analyzed	Unite	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	\	i.	'ــــ

COMMENTS: "C"

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

LABORATORY CONTROL SAMPLE REPORT

JTS-SJ Sample ID: LO136EA

Client Sample ID: N/A

TTS-SJ WO #: 9610066

Client Project Number: 965047

Matrix: SOIL

SDG #: N/A

Prep. Batch: 14167

Analyst: 5 ℃

Supervisor: MH

Analyte	Prep.	Analytical Method	Instr.	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Lead-STLC	CWET	8010A	ICP2	10/13/96	10/13/96	10	mg/L	1.0	0.96	96.0	

COMMENTS:

"C"

CHAIN OF CUSTODY RECORD 46100 43

AB. NO.	047	SAMPLER (SI	SKA GA	}	,		NO. OF CONTAINERS	DIMMISSE	DITIO		V3375			/	SEALED		•	TROT BOX 612317 logs, California	
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Norkorder 9610066 Client Project ID: 905047 Cooler hipping documentation present? If YES, enter Carrier and Airbill #: Custody Seal on the outside of cooler? Condition: Intact Broken Cemperature 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	Quote Number: YES YES	NO NO	N/A N/A
hipping documentation present? If YES, enter Carrier and Airbill #: Custody Seal on the outside of cooler? Condition: Intact Broken emperature of sample(s) within range? List temperatures of cooler(s): 5 lote: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as	YES	МО	N/A
If YES, enter Carrier and Airbill #: Custody Seal on the outside of cooler? Condition: Intact Broken Cemperature of sample(s) within range? List temperatures of cooler(s): Cooler(s	YES	МО	
If YES, enter Carrier and Airbill #: Custody Seal on the outside of cooler? Condition: Intact Broken Cemperature of sample(s) within range? List temperatures of cooler(s): Cooler(s			N/A
Custody Seal on the outside of cooler? Condition: Intact Broken Comperature of sample(s) within range? List temperatures of cooler(s):		N/A	
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lote: If all samples taken within previous 4 hr, circle N/A and place in sample storage area as			
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oon as possible.			
Samples	3770	\ T(\)	- ST/A
Chain of custody seal present for each container?	YES	NO	(N/A
Condition: Intact Broken L	******	> T/O	+ T/A
Samples arrived within holding time?	(YES)	NO	N/A
Samples in proper containers for methods requested?	YES	NO	!
Condition of containers: Intact Broken \(\)			1 5
If NO were samples transferred to proper container(s)? Yes No U		· · · · · · · · · · · · · · · · · · ·	
Were VOA containers received with zero headspace?	YES	NO	(N/A
If NO, were bubbles < 6 mm? Yes \(\Bar{\cup} \) No \(\Bar{\cup} \)			<u> </u>
Were container labels complete? (ID, date, time, preservative)	(XES)	NO	N/A
Were samples properly preserved?	(YES)	NO	N/A
If NO, was the preservative added at time of receipt? Yes \(\text{No} \)			
oH check of samples required at time of receipt?	YES	(NO)
If YES, pH checked and recorded by:			 -
Sufficient amount of sample received for methods requested?	(YES)	NO	1
If NO, has the client or PM been notified? Yes \(\Bar{\cup} \) No \(\Bar{\cup} \)			
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	<u>) </u>	МО
Number of containers on chain agree with number received?	/ YES	<u></u>	NO
Analysis methods specified?	(XES		NO
Sampling date and time indicated?	YES		NO
Proper signatures of sampler, courier and custodian in appropriate spaces?	XES	ر_	NO
With time and date? Yest No 🗆			
Turnaround time? Standard Rush			
Any NO responses and/or any BROKEN that was checked must be detailed in a Correcti			

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CHAIN OF CUSTODY RECORD

	AB, NO.	3)96 NO.	PROJECT NAME A LASKA GASOLINE SAMPLER (Signature) SAMPLE LOCATION/INFORMATION	NO. OF CONTAINERS	7 DI AMALYSIS	1 Hal-	BTITE	WET LEAN				SEALER	PETROTEK P.O. Box 612917 Sen. Jose, California 98161 REMARKS
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