Denny S. Fout DEPUTY OIL & GAS INSPECTOR

AUG 0 9 1999

Jicarilla Apache Tribe Environmental Protection Office P.O. Box 507 Dulce, New Mexico 87528



OIL CON. DIV.

Approved

Operator:	Taurus Explorat	ion U.S.A.,	Inc	Telephone:	:	(505)	325-6800			
Address:	2198 Bloomfield	Hwy, Farn	ningto	n, NM 87401						
Facility or Well I	Name:	Jicarilla 5	5-2R							
Location:	Unit or Qtr/QTR	Sec "P"	Sec 3	5, T 23 N, R	3 W	Count	y	Rio	Arriba	
Pit Type:	Separator:	Dehydrate	or:	Other: X - A	Abanc	oned S	Separator F	Pit		
Land Type:	Range									
	-									
Pit Location:	Pit dimensions:	length: 25	ft	width: 20 ft		depth:	18 ft			
(Attach Diagram)									
	Reference:	wellhead:	X	other:						
Footag	e from reference:	130 fe	et							
Directio	n from reference:	45		Degrees		East	North			
							of			
					X	West	South	X		
				···						
Depth To Groun	dwater:			Less than 50) feet	(20 points)			
(Vertical distanc	e from			50 feet to 99	e feet	((10 points)			
contaminants to	seasonal		Gre	ater than 100) feet		(0 points)		0	
high water eleva	itions of									
groundwater)										
}	phemeral Stream			ess than 100		(10 points)			
-	lry wash greater t	han	Gre	ater than 100) feet		(0 points)		0	
ten feet in width))									
	rest Lake, Playa,			ess than 100		(10 points)		•	
	dient lakes, playa	•	Grea	iter Than 100) teet		(0 points)		0	
llivestock or wildi	ife watering pond	S)								
Mallhand Danks	ation Associ				V.	,	00			
Wellhead Protect					Yes	(20 points)		^	
ì	eet from a private				No		(0 points)		0	
	source, or less that									
1000 feet from a	Il other water sou	(Ces)								
Distance To Sur	face Water		i	ess than 100) feet	ľ	20 points)			
(Horizontal dista				ess than 100) feet to 1000			10 points)			
	ers, streams, cre	eks		ter than 1000		((0 points)		0	
irrigation canals		,-,	J. 04		. ,500		(o points)			
5	· · · · · · · · · · · · · · · · ·		R.A	NKING SCC	RE (TOTAL	SCORE):		0	

Jicarilla Apache Tribe Environmental Protection Office P.O. Box 507 Dulce, New Mexico 87528

Date Remediation Started:	8/14/98	Date Completed	8/14/98
Remediation Method:	Excavation:	X	Approx. cubic yaı 304
(Check all appropriate	Landfarmed:	X	Insitu Bioremediation:
sections)	Other:		-
Remediation Location:	On-site:	X	Off-site:
(Le. landfarmed on site,			
name and location of			
off site location)			
General Description of Remedial	Action:	Soil was excavat	ed and landfarmed on location.
Groundwater Encountered:	No: X	Yes:	Depth:
Final Pit	Sample location	: Pit bottom @ 18	feet below surface . Pit
Closure Sampling:	walls were analy	zed for Headspac	ce (see attachment).
(If multiple samples,			
attach sample results			
and diagram of sample	Sample depth:	18 feet	
locations and depths.)	Sample date:	8/14/98	Sample time: 1240
Sample Results:			
Soil:			Water:
Benzene (ppm)		•	Benzene (ppb)
Total BTEX (ppm)		•	Toluene (ppb)
Field Headspace (ppm)	66.7	Eth	ylbenzene (ppb)
TPH (ppm)	<10		al Xylenes (ppb)
Groundwater Sample:	Yes:		No: X
(If yes, attach sample results.)		-	
HEREBY CERTIFY THAT TH	E INFORMATIO	N ABOVE IS T	RUE AND COMPLETE TO
THE BEST OF MY KNOWLED	GE AND BELIE	F	
DATE: 8/31/98		F	Frank McDonald
	212 / 0		
SIGNATURE: President	13//anh/	AND TITLE: E	Env. Division Manager
	/		
AFTER REVIEW OF THE PITA	CLOSURE INFO	ORMATION PIT	CLOSURE IS APPROVED
N ACCORDANCE TO THE JIC	CARILLA APAC	HE TRIBE PIT C	LOSURE ORDINANCE
			3,121101102
APPROVED: Yes: 🔀	No:	(Reason)	
	\sim	·	
SIGNED: King (W	la IX		DATE: 9-2-98

August 14, 1998 .

Pit Profile: North to South: Comments: Top soil - 6' Soil is moist, brown, loam with dark brown EPO Ranking Score: Range TPH Closure Standard: Nearest Ephemeral Stream: >1000' Nearest Surface Water: Nearest Water Source: Depth to Groundwater: Initial Size: 20' x 20' x 2' deep Final Size: 25' x 20' x 18' deep Reference: 130'S 45 W Quad: Pit: Abandoned Separator Pit rds. Excavated: 304 cy ocation: GRO/DRO analysis. staining and a strong hydrocarbon odor.

6' - 18' Soil is dry, clay shale, with some dark staining A sample from the center bottom at 18' was sent to IML for and a detectable odor. 18' Bedrock North 3 ¥ from wellhead ס Jicarilla 55 # 2-R Township Section >1000 5000 ×1000 >100 Sample # 23 N ð 35 C.8tm. @ 18' W. Wall @ 18 S. Wall @ 16' E. Wall @ 16" N. Wall @ 16' South Location 86.7 13.1 59 34 Pit Profile : East to West : Overview of Location and Sampling Road Entrance Abandoned Separator Production Tanks Pit East Separator Surface Gradient Pit Tank /20 ft West Earthen Pit # 2 10#

Environmental Specialist: VC

Cimarron Oilfield Services

Page 읔

2506 W. Main S Farmington, New Mexico 87

Frank McDonald Cimarron Oilfield Service Co. P. O. Box 3235 Farmington, NM 87401

August 24, 1998

Mr. McDonald:

Enclosed, please find the reports for the samples submitted for Taurus Exploration to our laboratory on August 18, 1998.

If you have any questions about the result of these analyses, please don't hesitate to call at your convenience.

We appreciate your business!

TIMINUS CE

Organics Lab Supervisor

Enclosure

xc: File



GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 55-2R Prod. Tank Pit

Sample ID: Lab ID:

C. Bottom @ 7' 0398G04563

Sample Matrix:

Condition: C

Soil

Cool/Intact

Report Date:

Date Sampled:

08/24/98 08/17/98

Date Received:

08/18/98

Date Analyzed:

08/20/98

13.11	100				
TOUC	400		****		
irn u	イシービ	ANGE	(MUL	EPA 8	015)

RESULT

DETECTION LIMIT

Gasoline-Range Petroleum Hydrocarbons

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By



2506 W. Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 55-2R Prod. Tank Pit

Report Date:
Date Sampled:

08/24/98 08/17/98

Sample ID: Lab ID:

C. Bottom @ 7' 0398G04563

Date Sampled:
Date Received:

Sample Matrix:

Soil

Date Analyzed:

08/18/98 08/20/98

Condition:

Cool/Intact

TPH DIESEL-RANGE (MOD EPA 8015) RESULT DETECTION LIMIT

Diesel-Range Petroleum Hydrocarbons

<5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:

Reviewed By





1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945		Relinquished by: (Signature)	Charlet Licher	Relinquished by: (Signature)	Mary 1	Relinquished by: (Signature)		つつり				JIC 55-2R PT C. BANCY	Sample No./	Sampler: (Signaturé)	Mex	Client/Project Name
1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945				1	1							8/11/58 13:01	Date Time		ation USH IMC	
le 250 82718 Farr 382-8945 Tele	nter-Moun												Lab Number	Chain of (Pr
2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Inter-Mountain Laboratories, Inc.	Date Time	2/8/98 0435	Date Time	7/18/58 07:50	Date Time						8	r Matrix	Chain of Custody Tape No.	Jiconilla 55-22	Project Location
1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	ies, Inc.	Received by laboratory: (Signature)		Received by: (Signature)	Think 1/	Received by: (Signature)							No. of Contain. 8015	ers	F. + 10 35	
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945	(Signature)			MORDIN				INTOC						ANALYSES / PARAMETERS	7
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itori	Time	30	Time	17.35	Time				/								101	Matrix	No.	500	
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search Driv , Montana e (406) 580			Received by: (Signature)		d by: (Signature)		7	(No. of Contain	ers	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
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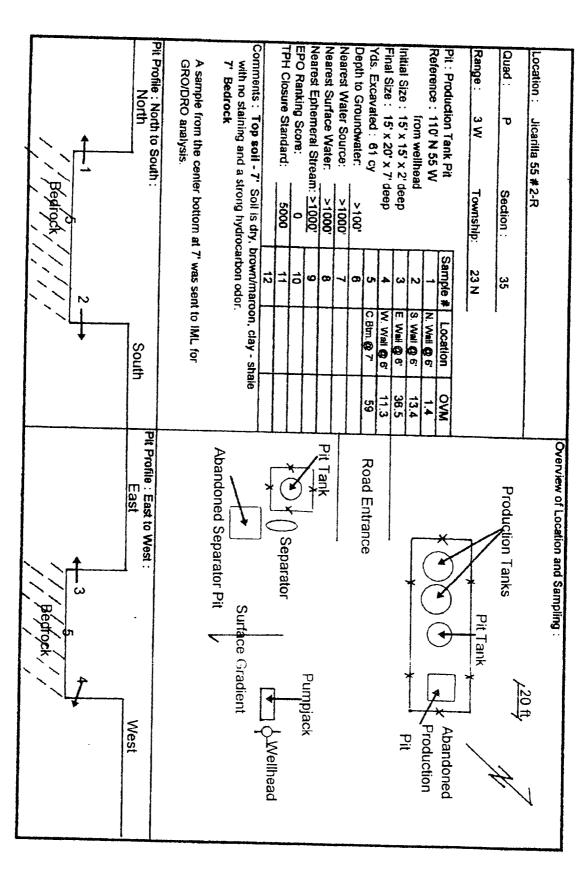
Jicarilla Apache Tribe Environmental Protection Office P.O. Box 507 Dulce, New Mexico 87528

Operator:	Taurus Explorat	ion U.S.A	., Inc	Telephone:	(505)	325-6800		
Address:	2198 Bloomfield							
Facility or Well		Jicarilla 5					····	
Location:	Unit or Qtr/QTR	Sec "P"	Sec	35, T 23 N, R 3 W	Count	y	Rio A	rriba
Pit Type:	Separator:	Dehydrat		Other: X - Produ				
Land Type:	Range							*
Pit Location:	Pit dimensions:	length: 1	5 ft	width: 20 ft	depth:	7 ft		
(Attach Diagrar	m)						•	
	Reference:	wellhead	: X	other:				
	ge from reference:	110 f	eet					
Direction	on from reference:	55	5	Degrees	East	North	Χ	
						of		
				X	West	South		
					·			
Depth To Grou				Less than 50 feet	((20 points)		
(Vertical distan				50 feet to 99 feet	(10 points)		
contaminants to			Gr	eater than 100 feet		(0 points)		0
high water elev	ations of					,	, , , , , , , , , , , , , , , , , , , ,	
groundwater)								
ì	Ephemeral Stream			Less than 100 feet	(10 points)		
	dry wash greater th	nan	Gr	eater than 100 feet		(0 points)		0
ten feet in width	1)					-		
Distance to Nea	arest Lake, Playa, (or Waterir	ng	Less than 100 feet	(10 points)		
Pond: (Downgra	adient lakes, playa	s, and	Gre	ater Than 100 feet		(0 points)		0
livestock or wild	dlife watering pond	s)				` ' .		
Wellhead Prote	ction Area:			Yes	(20 points)		
	feet from a private			No	`	(0 points)		0
	source, or less tha	n				(0		
	all other water sour							
Distance To Sur	rface Water:			Less than 100 feet	C	20 points)		
(Horizontal dista	ance to perennial			0 feet to 1000 feet		10 points)		
	vers, streams, cree	ks.		ater than 1000 feet	•	(0 points)		0
rrigation canals		•				(2 points)		J
	•		R	ANKING SCORE (T	OTAL	SCORE)		0

Jicarilla Apache Tribe Environmental Protection Office P.O. Box 507 Dulce, New Mexico 87528

			·
Date Remediation Started:	8/14/98	Date Completed	d 8/17/98
Remediation Method:	Excavation:	Х	Approx. cubic yaı 61
(Check all appropriate	Landfarmed:	X	Insitu Bioremediation:
sections)	Other:		-
Remediation Location:	On-site:	X	Off-site:
(I.e. landfarmed on site,			
name and location of			
off site location)			
General Description of Remedial	Action:	Soil was excava	ited and landfarmed on location.
Groundwater Encountered:	No: X	Yes:	Depth:
Final Pit	Sample location	Pit Bottom @ 7 f	feet below surface . Pit
Closure Sampling:			ice (see attachment).
(If multiple samples,			
attach sample results		**************************************	
and diagram of sample	Sample depth:	7 feet	•
locations and depths.)	Sample date:	8/17/98	Sample time: 1301
Sample Results:	·		
Soil:			Water:
Benzene (ppm)		•	Benzene (ppb)
Total BTEX (ppm)		•	Toluene (ppb)
Field Headspace (ppm)		Ett	hylbenzene (ppb)
TPH (ppm)			otal Xylenes (ppb)
Groundwater Sample:	Yes:	=	No: X
(If yes, attach sample results.)	100.		140. 7
(11) 50, 11111111111111111111111111111111111			;
I HEREBY CERTIFY THAT TH	IE INIEORMATIC	ON A DOME IS T	TOUR AND COMPLETE TO
THE BEST OF MY KNOWLED			RUE AND COMPLETE TO
	GE AND DELL	ir.	
DATE: 8/31/98			Frank McDonald
00 1100	1		Frank McDollaid
SIGNATURE The	1120 01	AND TITLE	Env. Division Manager
SIGNATURY. Jone 10	1 2/m	AND ITTLE.	Env. Division ivianager
AFTER REVIEW OF THE DIT	O' OO' IDE INE	COMMITTED DIT	
AFTER REVIEW OF THE PIT			
IN ACCORDANCE TO THE JI	JARILLA APAC	HE TRIBE PIT	CLOSURE ORDINANCE
ADDDOVED: Ves. \/	4.1		
APPROVED: Yes: X	No:	(Reason)	
SIGNED: Low (77)	1. <i>U</i>	/	DATE: 9-2-98

id: August 17, 1998



Environmental Specialist : VC

Cimarron Oiffield Services

Page 1 of 1

Frank McDonald Cimarron Oilfield Service Co. P. O. Box 3235 Farmington, NM 87401

August 24, 1998

Mr. McDonald:

Enclosed, please find the reports for the samples submitted for Taurus Exploration to our laboratory on August 17, 1998.

If you have any questions about the result of these analyses, please don't hesitate to call at your convenience.

We appreciate your business!

Sharon Williams

Organics Lab Supervisor

Enclosure

xc: File



GASOLINE RANGE ORGANICS - GRO

Taurus Exploration U.S.A., Inc.

Project ID:

Jicarilla 55-2R Sep. Pit

Sample ID: Lab ID

C. Bottom @ 18' 0398G04552

Sample Matrix:

Soil

Condition:

Cool/Intact

Report Date:

08/24/98

Date Sampled: Date Received: 08/14/98

Date Analyzed:

08/17/98

08/20/98

TPH GAS-RANGE (MOD EPA 8015) RESULT DETECTION LIMIT	
IPH GAS-RANGE (MUDIEPA 8015) RESULT DETECTION LIMIT	TOU CAS DANCE MODERN SOARS

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:



2506 W Main Street Farmington, New Mexico 87401

DIESEL RANGE ORGANICS - DRO

Taurus Exploration U.S.A., Inc.

Project ID: Sample ID: Jicarilla 55-2R Sep. Pit C. Bottom @ 18'

Lab ID: 0398G04552

Sample Matrix: Condition:

Soil

Cool/Intact

Report Date:

08/24/98 Date Sampled: 08/14/98 Date Received: 08/17/98

Date Analyzed:

08/20/98

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Diesel-Range Petroleum Hydrocarbons

< 5.0

5.0 mg/kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

Reported By:





Ollent/Project Name			Pro	Project Location		1 200 200 200				
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Sample No./ Identification	Date	Time	Lab Number		Matrix	No. of Contain	1029			
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Sheridan, Wyoming 82801		1701 Philips Circle Gillette, Wyoming 82718 דרובה בים וקחמי איז בים בים המים המים המים רבים וקחמי		2506 West Main Street Farmington, NM 87401 Tolonhone (FOR) 226-4727		1160 Research Drive Bozeman, Montana 59718 Telenhone (ADR) รลณ.ชมรก	ive a 59718 ac.aacn	11183 State Hwy. 30 College Station, TX 77845 Telenhone (Ano) 776-8045	7000 —	Ž



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1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945			Relinquished by: (Signature)	(Signature)	/ ex	Maranier of (oldinamie)	rauished by: (Signature)	,						Je 55-28 PT OBMET	Identification	Sample No /		gnat	Tolores Exploration	Client/Project Name
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1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	=			•										13:01	Time				WH I'M	
e 82718 82-8945	Inter-Mountain Laboratories, Inc.														Lab Number	-		_	36	
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2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	Labor	Date		Date	1929	Date											, apo	ody Tane N		
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54579		Date Time		Time	<u>* </u>	Time			J. 18 1. 18 1.											

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>Taurus Exploration USA Inc.</u>	Telephone: (505) 325 - 6800
Address: 2198 Bloomfield Hwy, Farming	ton N.M. 87401
Facility or Well Name: <u>Jicarilla 55-2R</u>	
Location: Unit or Qtr/Qtr Sec_P_Sec_3	35 T 23 N R 3 W County Sandoval
Land Type: Range	
Date Remediation Started: 8/14/98 Da	ite Completed: 11/18/98
Remediation Method: Landfarmed X	Approx. cubic yards 365
Composted	
Other	_ _
Depth to Groundwater: (pts) 0	Final Closure Sampling:
Distance to an Ephemeral Stream (pts) 0	Sampling Date: <u>11/18/98</u> Time: <u>0945</u>
Distance to Nearest Lake, Playa, or Watering Pond (pts)0	Sample Results:
Wellhead Protection Area (pts) 0	Field Headspace (ppm) <u>5.7</u> TPH (ppm) <u><10</u> Method <u>8015</u>
Distance to Surface Water (pts)0	Other: (ppm) <10 Method 8015
RANKING SCORE (TOTAL POINTS): 0	Other.
I HEREBY CERTIFY THAT THE INFORMATION ABO KNOWLEDGE AND BELIEF DATE: 12/16/98 PRINTED N	OVE IS TRUE AND COMPLETE TO THE BEST OF MY NAMEVIRGIL CHAVEZ
1/: 1///	
SIGNATURE / LIM	AND TITLE ENV. SPECIALIST
AFTER REVIEW OF THE SOIL REMEDIATION DAYOR APPROVED IN ACCORDANCE TO THE JICARILIA AL APPROVED: YES	RMATION. ON-SITE SOIL REMEDIATION IS

		Overview of Landfarm and Sampling :	Sampling :	
Location: Jicarilla 55-2R		>	Landfarm	
Quad: P Section:	35	T	2 2 1 1	
Township: 23 N Range:	3 W	-	2	
Pit: Separator/Prod.Tank	Sample # Location OVM	_	2	Surface Gradient
	Comp 1			
Reference 175 N 5 W from	2 Comp 2 5.7			-
wellhead.		1	Wellhead	
	4			
Size: 110' x 35' x 2'	5	Posteri or Fall R		
	6	n with an in the		
	7			
Yds: 365	8			
	9		Punp Jack	
2 5 - Point Composites	10		,	
	11)		
	12			
		Production Tanks	Separator	Earthen Ht
Comments : Soil is moist, light bro	Soil is moist, light brown, sandy/clay/loam, with no visible staining and a slight hydrocarbon odor.	ole staining and a slight hydr	ocarbon odor.	
A sample from comp	A sample from composite # 2 was sent to IML for GRO/DRO analysis)/DRO analysis.		
CITALIOURIST SPECIALIST JE				

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

GASOLINE RANGE ORGANICS - GRO

TAURUS EXPLORATION U.S.A., INC.

Project ID:

Jicarilla 55-2-R

12/15/98

Sample ID:

Prod. Pit Land Farm

Lab ID:

0398G06796

Date Sampled: 11/18/98 Date Received: 11/20/98

Sample Matrix:

Soil

Date Analyzed:

Report Date:

12/08/98

Condition:

Cool/Intact

TPH GAS-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Gasoline-Range Petroleum Hydrocarbons	<5.0	5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:

2506 West Main Street, Farmington, NM 87401



Phone (505) 326-4737 Fax (505) 325-4182

DIESEL RANGE ORGANICS - DRO

TAURUS EXPLORATION U.S.A., INC.

Project ID:

Jicarilla 55-2-R

Sample ID:

Prod. Pit Land Farm

Lab ID:

0398G06796

Cool/Intact

Sample Matrix:

Soil

Condition:

Report Date:

12/15/98

Date Sampled:

11/18/98

Date Received:

11/20/98

Date Analyzed:

12/04/98

TPH DIESEL-RANGE (MOD EPA 8015)	RESULT	DETECTION LIMIT
Diesel-Range Petroleum Hydrocarbons	<5.0	5.0 mg/Kg

ND - Analyte not detected at the stated detection limit.

Reference:

Comments:



1633 Terra Avenue 1701 Phillips Circle 2506 West Main Street 110 Sheridan, Wyoming 82801 Telephone (307) 672-8945 Telephone (307) 672-8945 Telephone (307) 682-8945 Telephone (307) 682-8945 Telephone (307) 682-8945			1 85 CC 11	elinquished by: (Signature)					1 and Farm 1-19-98 6945 Soil	ple No./ ification	Chain of Custody Tape No.	Exploration	
TITIC: 30 Research Drive zeman, Montana 59718 sphone (406) 586-8450			Received by: (Signature)						X	No. of Contain	iers	- 12 / ANA	
11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945			000			1000	Recail				Remarks	ANALYSES / PARAMETERS	
57704	Buth Kalo	-	Date	-			+0010				arks	S	