NM1 - 6

C-138

YEAR(S):

1999

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8/8/

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Plus 1 Co
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District Off

Oil Conservation Division
Environmental Bureau
DEC 07 1999
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NOV 07 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator NAVAJO REFINING CO. 5. Originating Site ARTESIA FACILITY
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CRI
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 E. MAIN ARTESIA	NEW MEXICO

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Flouride precipitator solids generated from the mixing of hydrofluoric acid from Navajo's alkylation unit with calcium chloride to remove fluorides. I am enclosing a Certificate a waste status, analysis and Chain of Custody.

11-003

Estimated Volume *APPX. 360 barrels/week* cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper Waste Management Facility Authorized Agent TITLE: *BOOKKEEPER* DATE: *11-30-99*

TYPE OR PRINT NAME: *KATH HARPER* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-02-99

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 12-7-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Fluoride precipitator solids**

ESTIMATED VOLUME: **Approximately 360 barrels per week.**

GENERATING PROCESS: **Solids generated from the mixing of hydrofluoric acid from Navajo's alkylation unit with calcium chloride to remove fluorides.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorporated**

TRUCKING COMPANY: **Controlled Recovery, Inc.**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

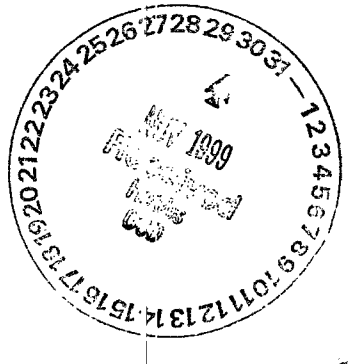
AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 11/24/99



NON HAZ

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO,
Attention: Byran Madrid
501 E. Main
Artesia, NM 88210

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Sludge
Project #: N/A
Project Location: N/A

Extraction Date: 10/06/99
Analysis Date: 10/09/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T132780 Fluoride Precip	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	108	95
1,1-Dichloroethene	0.70	0.05	ND	100	2	102	100
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	98	108
Chloroform	6.00	0.05	ND	103	0	106	103
1,2-Dichloroethane	0.50	0.05	ND	102	0	115	102
Benzene	0.50	0.05	ND	102	0	104	102
Carbon Tetrachloride	0.50	0.05	ND	101	8	90	101
Trichloroethene	0.50	0.05	ND	100	1	98	100
Tetrachloroethene	0.70	0.05	ND	99	1	98	99
Chlorobenzene	100.00	0.05	ND	101	1	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	107	1	108	107

SURROGATES	**% Recovery**
Dibromofluoromethane	113
Toluene-d8	100
4-Bromofluorobenzene	98

ND = Not Detected

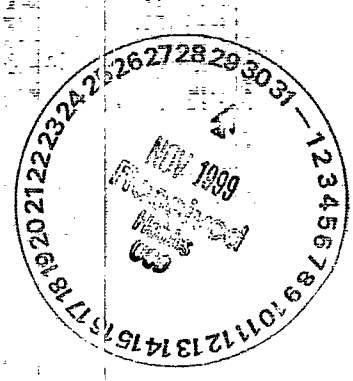
METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG

BL

Director, Dr. Blair Leftwich

10-14-99

Date


NOV 1999

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E-Mail: lab@traceanalysis.com

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Sludge
Project #: N/A
Project Location: N/A

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO,
Attention: Byran Madrid
501 E. Main
Artesia, NM 88210

Extraction Date: 10/06/99
Analysis Date: 10/07/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T132780 Fluoride Precip	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	58	1	69	97
1,4-Dichlorobenzene	7.5	0.05	ND	60	3	74	99
o-Cresol	200.0	0.05	ND	60	10	92	101
m,p-Cresol	200.0	0.05	ND	61	13	85	101
Hexachloroethane	3.0	0.05	ND	59	2	75	99
Nitrobenzene	2.0	0.05	ND	61	3	113	101
Hexachlorobutadiene	0.5	0.05	ND	60	4	83	100
2,4,6-Trichlorophenol	2.0	0.05	ND	60	6	113	101
2,4,5-Trichlorophenol	400.0	0.05	ND	63	4	124	105
2,4-Dinitrotoluene	0.13	0.05	ND	70	0	148	117
2,4-D	10.0	0.05	ND	70	0	129	117
Hexachlorobenzene	0.13	0.05	ND	61	8	135	102
2,4,5-TP	1.0	0.05	ND	58	15	118	113
Pentachlorophenol	100.0	0.05	ND	57	2	129	94

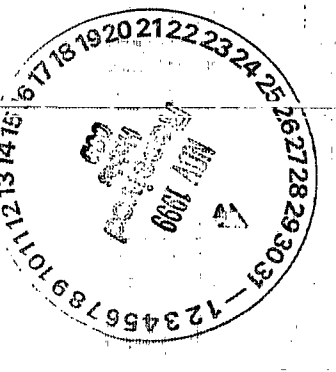
SURROGATES	**% Recovery**
2-Fluorophenol	63
Phenol-d6	56
Nitrobenzene-d5	122*
2-Fluorobiphenyl	111
2,4,6-Tribromophenol	123
Terphenyl-d14	93

***Surrogates over concentrated higher recoveries than expected, no analytes present in samples.**

ND = Not Detected
METHODS: EPA SW 846-1311, 8270
CHEMIST: MA

Director, Dr. Blair Leftwich

10-14-99
Date



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E-Mail: lab@traceanalysis.com

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Sludge
Project No: N/A
Project Location: N/A

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO,
Attention: Byran Madrid
501 E. Main
Artesia, NM 88210

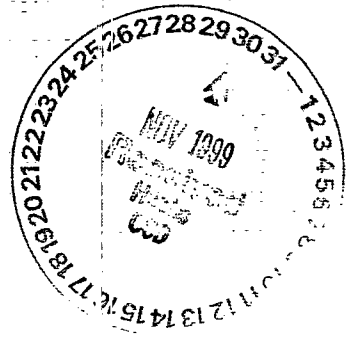
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
	EPA LIMIT =	5.0	100	1.0	5.0	5.0	1.0	5.0	0.20
T132780	Fluoride Precip	<0.20	0.33	<0.20	<0.20	<0.20	<0.20	<0.20	<0.010
ICV		1.08	1.10	2.20	1.09	1.09	1.08	0.216	0.0056
CCV		0.92	0.96	1.96	0.96	0.95	0.92	0.182	0.0059
REPORTING LIMIT		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.010
RPD		1	1	1	1	1	2	5	2
% Extraction Accuracy		108	106	104	109	104	102	105	88
% Instrument Accuracy		100	103	104	103	102	100	99	116
PREP DATE		10/06/99	10/06/99	10/06/99	10/06/99	10/06/99	10/06/99	10/06/99	10/05/99
ANALYSIS DATE		10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/12/99

METHODS: EPA 846-6010B, 3015, 7470A
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: JM Hg: BP
TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 0.20 mg/L Ag, Hg SPIKE: 0.050 mg/L
TOTAL METALS CV: 1.0 mg/L As, Se, Cr, Pb, Ba, : Cd: 2.0 mg/L Ag: 0.20 mg/L Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

10-14-99
Date


MAY 1999

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Sludge
Project #: N/A
Project Location: N/A

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Byran Madrid
501 E. Main
Artesia, NM 88210

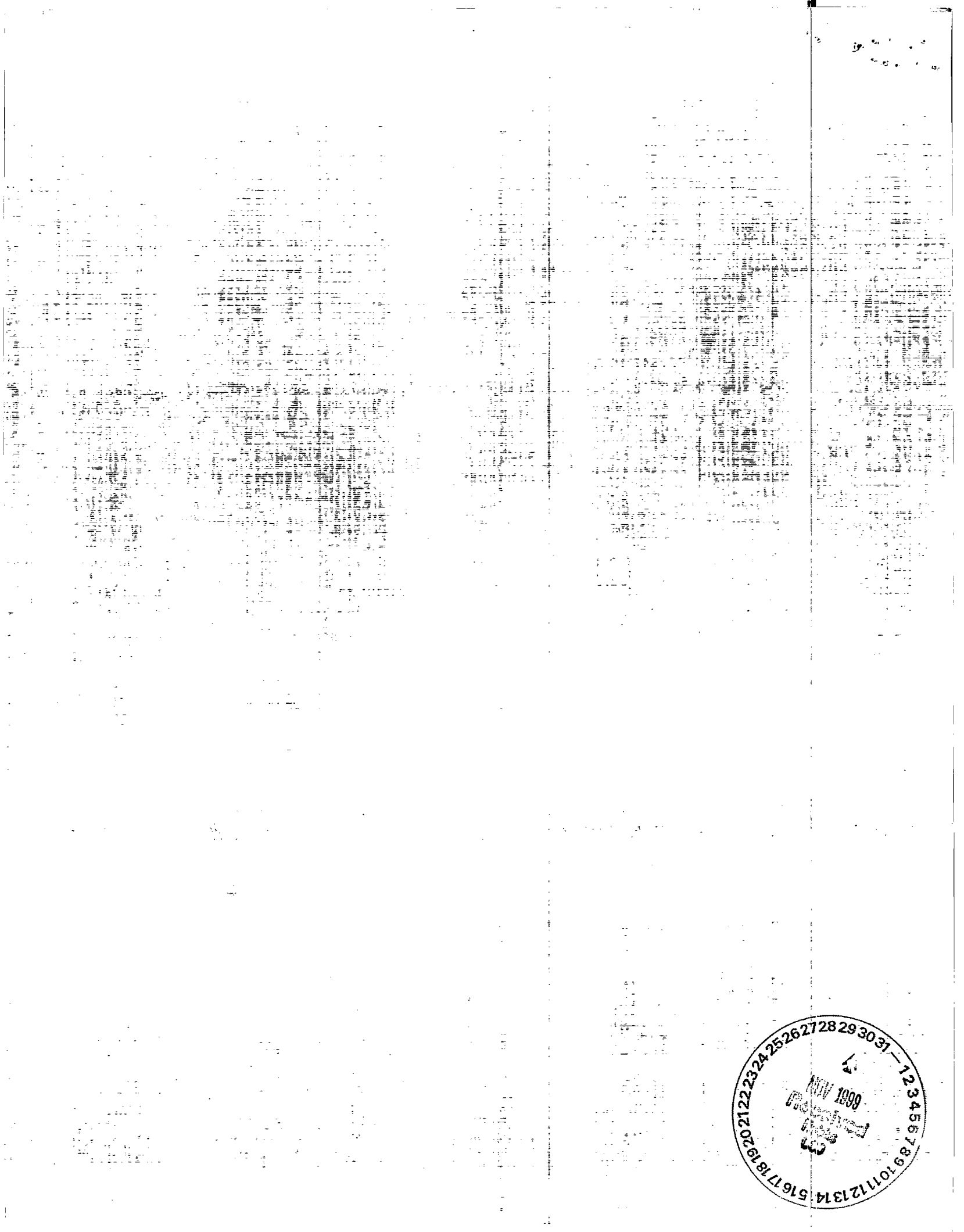
Extraction Date: 10/13/99
Analysis Date: 10/13/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T132780	Fluoride Precip	Non-reactive	<10	<2.5	Non-corrosive	8.50	Non-Ignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: JM

Director, Dr. Blair Leftwich

10-14-99
Date



132177-80

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99100507

Company Name: NAVAJO REFINING Co. Phone #: (505) 748-3311

Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210 Fax #: (505) 748-9077

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	FILTER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
132779	INJECT. Well FILTER	1	1L					X			X	X	10/4/99	13:00
80	FLUORIDE PRECIP.	1	1L				X				X	X	10/4/99	13:30

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
					X	X	X		X											
					X	X	X		X											

Relinquished by: Bryan Madrid Date: 10/4/99 Time: 16:15

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Date: Time:
Jodi Windham 10-5-99 9:00

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 5°C °
Log-in Review MM

REMARKS:
10/4/99

Carrier # FedEx 264 2874 656

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY


MAY 1999

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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JAN 2 2 1999
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/

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District O

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Ref.
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator Box 388, Hobbs, NM 88241	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main	Artesia, NM

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Blast sand, pipeline filters D-479, Catalyst.
See attached Certificate of Waste Status, analysis, chain of custody and NMED letter.

01-002

Estimated Volume 125 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

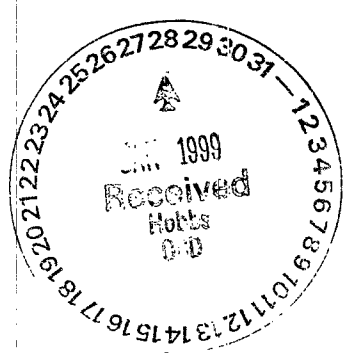
SIGNATURE: K Marsh Waste Management Facility Authorized Agent TITLE: Manager DATE: 1-20-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 2-3-99

APPROVED BY: Wesley Ingram TITLE: Environmental Geologist DATE: 1-25-99


1999
Received
Hobbs
O-D

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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JAN 22 1999
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8

Submit Orig
Plus 1 C
to appropr
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Ref.
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator Box 3388, Hobbs, NM 88241	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E./Main	Artesia, NM

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Blast sand, pipeline filters D-479, Catalyst.
See attached Certificate of Waste Status, analysis, chain of custody and NMED letter.

01-002

Estimated Volume 125 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 1-20-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 1-25-99


JAN 1999
Received
Hobbs
OCD

TELEPHONE
(505) 748-3311

EASYLINK
62905278

Navajo REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

January 18, 1999

Ken Marsh
CRI Inc.
P.O. Box 388
Hobbs, NM 88241

Dear Mr. Marsh:

I would like to get the following wastes profiled into your facility.

1) Blast sand
2) Pipeline filters
3) Diesel HDU Reactor (D-479) catalyst

Enclosed you will find a Certificate of Waste Status and, if applicable, an analysis for each waste.

If you have any questions, please call me at (505) 748-3311. Thank you for your time in this matter.

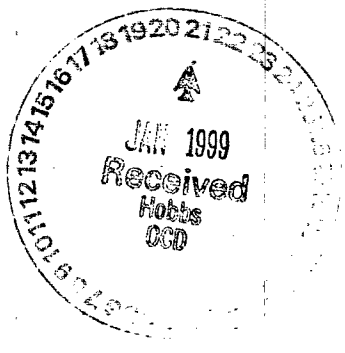
Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 1999


JAN 1999
Received
Hobbs
OCD

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Blast Sand**

ESTIMATED VOLUME: **20 - Fifty-five gallon drums**

GENERATING PROCESS: **Generated from sand blasting the outside of a reflux drum so it could be repainted.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

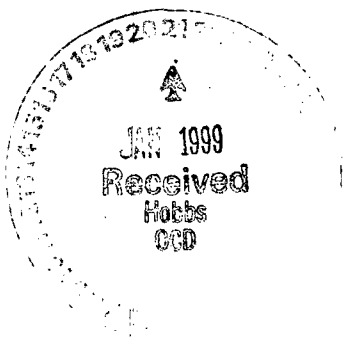
AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 1/18/99


JAN 1999
Received
Hobbs
OCD

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

January 7, 1999
Receiving Date: 12/16/98
Sample Type: Sand
Project No:
Project Location:

Extraction Date: 12/18/98
Analysis Date: 12/20/98
Sampling Date: 12/15/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T115010 Blast Sand Conc.	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	84	17	115	84
1,1-Dichloroethene	0.70	0.05	ND	84	16	106	84
Methyl Ethyl Ketone	200.0	0.5	ND	120	11	91	120
Chloroform	6.00	0.05	ND	88	17	90	88
1,2-Dichloroethane	0.50	0.05	ND	84	14	98	84
Benzene	0.50	0.05	ND	90	18	95	90
Carbon Tetrachloride	0.50	0.05	ND	85	16	88	85
Trichloroethene	0.50	0.05	ND	88	18	90	88
Tetrachloroethene	0.70	0.05	ND	97	16	99	97
Chlorobenzene	100.00	0.05	ND	98	17	92	98
1,4-Dichlorobenzene	7.50	0.05	ND	102	19	100	102

SURROGATES	**% Recovery**
Dibromofluoromethane	89
Toluene-d8	99
4-Bromofluorobenzene	93

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG



Director, Dr. Blair Leftwich

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E-Mail: lab@traceanalysis.com

ANALYTICAL
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

January 7, 1999
Receiving Date: 12/16/98
Sample Type: Sand
Project No:
Project Location:

Prep Date: 12/18/98
Analysis Date: 12/20/98
Sampling Date: 12/15/98
Sample Condition: I & C
Sample Received by: VW

Project Name:

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T115010 Blast Sand	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	91	169*	3	114
1,4-Dichlorobenzene	7.5	0.05	ND	76	10	62	95
o-Cresol	200.0	0.05	ND	73	5	54	91
m,p-Cresol	200.0	0.05	ND	75	5	48	94
Hexachloroethane	3.0	0.05	ND	81	10	65	101
Nitrobenzene	2.0	0.05	ND	74	8	70	93
Hexachlorobutadiene	0.5	0.05	ND	82	9	70	103
2,4,6-Trichlorophenol	2.0	0.05	ND	77	7	74	96
2,4,5-Trichlorophenol	400.0	0.05	ND	87	5	77	109
2,4-Dinitrotoluene	0.13	0.05	ND	81	6	74	101
2,4-D	10.0	0.05	ND	75	7	76	94
Hexachlorobenzene	0.13	0.05	ND	76	9	73	95
2,4,5-TP	1.0	0.05	ND	66	5	65	83
Pentachlorophenol	100.0	0.05	ND	81	7	63	101

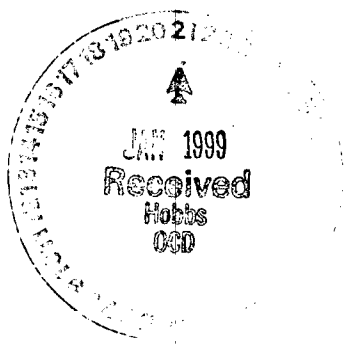
Surrogates	**% RECOVERY**
2-Fluorophenol	41
Phenol-d6	23
Nitrobenzene-d5	71
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	73
Terphenyl-d14	93

***RPD out of control limit.**
ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: SO

Director, Dr. Blair Leftwich

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ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.

January 7, 1999
Receiving Date: 12/16/98
Sample Type: Sand
Project No:
Project Location:

Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Sampling Date: 12/15/98
Sample Condition: I & C
Sample Received by: VW
Project Name:

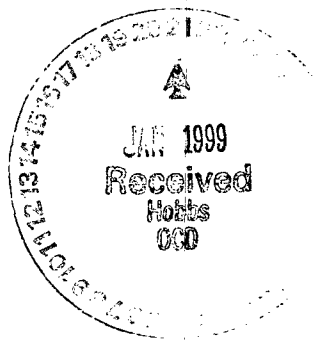
TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T15010	Blast Sand	<0.10	<0.10	<0.02	0.44	0.79	0.06	<0.10	<0.010
ICV		1.0	1.0	1.0	1.0	0.99	0.20	1.0	0.0050
CCV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.0050
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		5	0	0	10	0	2	5	2
% Extraction Accuracy		90	110	110	100	100	100	105	106
% Instrument Accuracy		100	100	100	100	99	100	100	102
PREP DATE		12/16/98	12/16/98	12/16/98	12/16/98	12/16/98	12/16/98	12/16/98	12/16/98
ANALYSIS DATE		12/18/98	12/18/98	12/18/98	12/18/98	12/18/98	12/18/98	12/18/98	12/29/98

METHODS: EPA 846-6010B, 3050B, 7471A
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
TOTAL METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb, Ba: 0.50 mg/L Ag Hg SPIKE 0.0050 mg/L
TOTAL METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.0050mg/L

Director, Dr. Blair Leftwich

1-7-99
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6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

January 7, 1999
Receiving Date: 12/16/98
Sample Type: Solids
Project No: N/A
Project Location: N/A

Extraction Date: 01/03/99
Analysis Date: 01/03/99
Sampling Date: 12/15/98
Sample Condition: Intact & Cool
Sample Received By: VW
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T115010	Blast Sand	Non-reactive	<10	<2.5	Non-corrosive	7.4	Nonignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

1-7-99
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TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 344

Company Name: NAVAJO REFINING Co. Phone #: (505) 748-3311

Address: (Street, City, Zip) P.O. DRAWER 159 ARTESIA, NM 88211 Fax #: (505) 748-9077

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	SAND	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
115010	BLAST SAND	1	1L					X				X	12/15/98	14:30
11	HCS-1D	1	4oz		X							X	12/15/98	14:50
12	HCS-2D	1	4oz		X							X	12/15/98	14:55
13	HCS-3D	1	4oz		X							X	12/15/98	15:05
14	HCS-4D	1	4oz		X							X	12/15/98	15:00
15	HCS-5D	1	4oz		X							X	12/15/98	15:10

LAB # (LAB USE ONLY)	MTBE 8021B/602	BTEX 8021B/602	TPH (418.1) TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
115010						X	X	X		X							
11			X														
12			X														
13			X														
14			X														
15			X														

Relinquished by: Bryan Madrid Date: 12/15/98 Time: 16:15

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Vicki Wyndham Date: 12-16-98 Time: 9:30

LAB USE ONLY

Intact (Y) / N

Headspace Y / N

Temp -2 °

Log-in Review

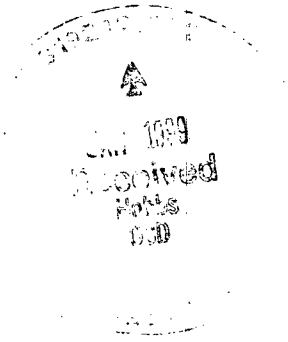
REMARKS:

12/23

4/8

Carrier # fedex 230425057S

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Pipeline Filters**

ESTIMATED VOLUME: **40 yards**

GENERATING PROCESS: **Filters are used to separate solids from finished products being transferred in pipelines to our El Paso terminal.**

REMARKS: **Process has not changed ,therefore, enclosed is a letter from the NMED verifying this waste is non hazardous.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 1/18/99


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State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544

GARY E. JOHNSON
GOVERNOR

MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

November 10, 1997

Mr. Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211-0159

Dear Mr. Moore:

RE: Disposal of Pipeline Filters

Based on the information Navajo Refining Company (NRC), has provided on the above captioned subject, the New Mexico Environment Department (NMED), Hazardous and Radioactive Materials Bureau (HRMB), finds that your knowledge of process (KOP) is sufficient at this point in time to support a non-hazardous waste designation for these filters. However, NMED must point out that should any changes be made to the "process" or "processes" which generate this waste, NRC must perform another hazardous waste determination on the filters affected. NMED/HRMB may also sample this waste stream at periodic intervals in the future as well.

If you have any further questions or if I can be of any other assistance, please call me at (505) 827-1508.

Sincerely,

John M. Tymkowych
RCRA Inspection/Enforcement Program Manager
Hazardous and Radioactive Materials Bureau

cc: Benito J. Garcia, Chief HRMB
- Navajo, Blue, 1997


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CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Catalyst from Diesel HDU Reactor (D-479)**

ESTIMATED VOLUME: **70 Yards**

GENERATING PROCESS: **Catalyst used to remove sulfur from diesel feed to the reactor.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 1/18/99


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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Extraction Date: 11/16/98
Analysis Date: 11/21/98
Sampling Date: 11/11/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

December 29, 1998
Receiving Date: 11/12/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T112514 D-479	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	86	20	57	108
1,4-Dichlorobenzene	7.5	0.05	ND	83	4	80	104
o-Cresol	200.0	0.05	ND	88	0	78	110
m,p-Cresol	200.0	0.05	ND	86	1	139	108
Hexachloroethane	3.0	0.05	ND	84	3	82	105
Nitrobenzene	2.0	0.05	ND	82	0	97	103
Hexachlorobutadiene	0.5	0.05	ND	84	2	86	105
2,4,6-Trichlorophenol	2.0	0.05	ND	85	2	85	106
2,4,5-Trichlorophenol	400.0	0.05	ND	88	2	89	110
2,4-Dinitrotoluene	0.13	0.05	ND	84	4	70	105
2,4-D	10.0	0.05	ND	89	2	79	111
Hexachlorobenzene	0.13	0.05	ND	86	1	94	108
2,4,5-TP	1.0	0.05	ND	74	8	86	93
Pentachlorophenol	100.0	0.05	ND	93	3	81	116

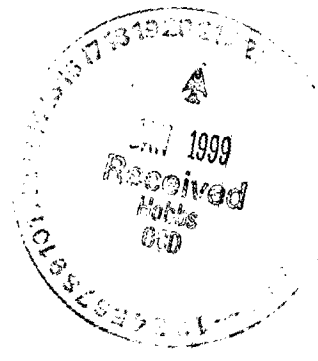
Surrogates	**% RECOVERY**
2-Fluorophenol	50
Phenol-d6	32
Nitrobenzene-d5	87
2-Fluorobiphenyl	78
2,4,6-Tribromophenol	80
Terphenyl-d14	94

ND - Not Detected

Methods: EPA SW 846-1311, 8270C.
CHEMIST: DG

Director, Dr. Blair Leftwich

28 DEC 98
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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 29, 1998
Receiving Date: 11/12/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 11/19/98
Analysis Date: 11/24/98
Sampling Date: 11/11/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T112514 D-479	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	120	1	222*	120
1,1-Dichloroethene	0.70	0.05	ND	110	2	96	110
Methyl Ethyl Ketone	200.0	0.5	ND	100	10	98	100
Chloroform	6.00	0.05	ND	109	0	120	109
1,2-Dichloroethane	0.50	0.05	ND	114	0	120	114
Benzene	0.50	0.05	ND	101	1	115	101
Carbon Tetrachloride	0.50	0.05	ND	120	5	144*	120
Trichloroethene	0.50	0.05	ND	107	2	115	107
Tetrachloroethene	0.70	0.05	ND	108	0	119	108
Chlorobenzene	100.00	0.05	ND	104	2	109	104
1,4-Dichlorobenzene	7.50	0.05	ND	104	1	113	104

SURROGATES	**% Recovery**
Dibromofluoromethane	108
Toluene-d8	101
4-Bromofluorobenzene	106

ND = Not Detected

***NOTE: Spike recoveries out of range due to bad TCLP spike concentration.**

METHODS: EPA SW 846-1311, 8260B.
CHEMIST: JG

Director, Dr. Blair Leftwich

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING

December 29, 1998
Receiving Date: 11/12/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Sampling Date: 11/11/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T112514	D-479	0.83	0.62	<0.20	<0.20	0.38	<0.20	<0.20	<0.010
ICV		1.0	1.0	1.0	1.0	1.0	0.20	0.98	0.0050
CCV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.050
Reporting Limit		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.010
RPD		0	0	0	0	0	0	0	8
% Extraction Accuracy		95	95	100	100	100	100	95	102
% Instrument Accuracy		100	100	100	100	100	100	100	100
EXTRACTION DATE		11/15/98	11/15/98	11/15/98	11/15/98	11/15/98	11/15/98	11/15/98	11/13/98
ANALYSIS DATE		11/25/98	11/25/98	11/25/98	11/25/98	11/25/98	11/25/98	11/25/98	11/22/98

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP/MS
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.40 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg.

Director, Dr. Blair Leftwich

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

December 29, 1998
Receiving Date: 11/12/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

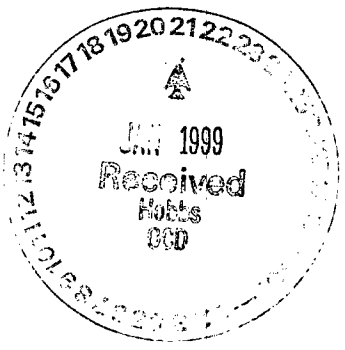
Extraction Date: 11/30/98
Analysis Date: 11/30/98
Sampling Date: 11/11/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/yr)	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	>6.5 mm/yr	<2 >12.5	---
T112514	D-479	Non-reactive	<10	<2.5	Non-Corrosive	5.5	Nonignitable
QC	Quality Control	---	---	---	---	7.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		---	---	---	---	100	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

29DEC98
DATE


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12573-14

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 244

Company Name: NAVAJO REFINING Co.
Phone #: (505) 748-3311
Address: 501 E. MAIN
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Cuttings	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
112513	D-283	1	40oz					X				X	11/11/98	13:15
14	D-479	1	1L					X				X	11/11/98	13:30

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	X-TCLP-BENZENE	Turn Around Time if different from standard	Hold
					X	X	X	X								

Relinquished by: Bryan Madrid Date: 11/11/98 Time: 16:15
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Vicki Wrotha Date: 11-12-98 Time: 10:20 AM

LAB USE ONLY

Intact (Y) N
Headspace Y / N
Temp -2 °
Log-in Review MS

REMARKS:

11/24

218 0502 597

Carrier # Fedex 218050 2597

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.


JUN 1999
Received
Hobbs
OCD

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/8

RECEIVED
JAN 11 1999
Environmental Bureau
Oil Conservation Division

Submit Origi
Plus 1 C
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Stevenson & Lea Land
3. Address of Facility Operator P. O. Box 388 Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 510 E. Main	Artesia, NM

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Crude contaminated soil and catalyst. I have included waste analysis, certificate of waste and chain of custody.

12-006

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 1-5-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Env. Geologist DATE: 1-11-99


Jan 1999

TELEPHONE
(505) 748-3311

EASYLINK
62905278

REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

December 29, 1998

Ken Marsh
CRI Inc.
P.O. Box 369
Hobbs, NM 88241

Dear Mr. Marsh:

I would like to get the following wastes profiled into your facility.

1) Crude contaminated soil
2) Contaminated soil
3) D-41 and D-42 catalyst

Enclosed you will find a Certificate of Waste Status for each media along with an analysis.

If you have any questions, please call me at (505) 748-3311. Thank you for your time in this matter.

Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 1998


1999

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Crude contaminated soil**

ESTIMATED VOLUME: **80 yards**

GENERATING PROCESS: **Spill clean ups around crude holding stations.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Stevenson Roach - Dump trucks**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

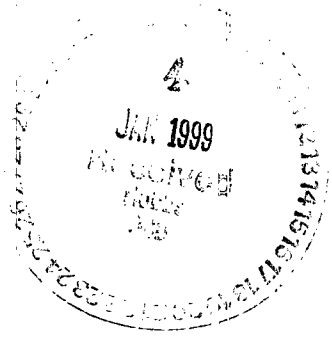
AGENT: Bryan Madrid
SIGNATURE

NAME: ***BRYAN MADRID***
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 12-29-98


4
JAN 1999

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Contaminated soil**

ESTIMATED VOLUME: **Thirteen 55 gallon drums**

GENERATING PROCESS: **Soil came from the washing of trucks at Navajo's trucking department.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorporated**

TRUCKING COMPANY: **Lea Land Incorporated in 20 yard roll off bins.**

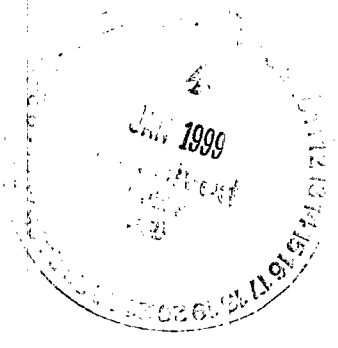
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 E. MAIN
ARTESIA, NM 88210

DATE: 12-29-98


1999

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Catalyst from isom feed sulfur guard drums (D-41 and D-42).**

ESTIMATED VOLUME: **Forty 55 gallon drums.**

GENERATING PROCESS: **Catalyst strips sulfur from feed to Navajo's Isom Unit**

REMARKS: **Previous analysis enclosed since process has not changed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated - 20 yard roll off bins**

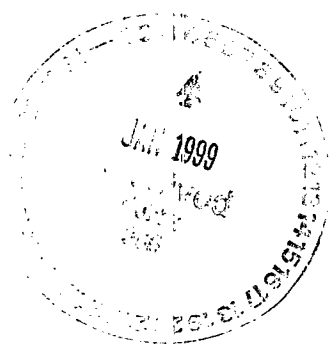
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 E. MAIN
ARTESIA, NM 88210

DATE: 12/29/98


JAN 1999

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 14, 1998
Receiving Date: 11/24/98
Sample Type: Soil
Project No: NA
Project Location: N/A

Extraction Date: 12/1/98
Analysis Date: 12/2/98
Sampling Date: 11/23/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T113574 Crude Contam Conc.	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	112	5	199	112
1,1-Dichloroethene	0.70	0.05	ND	110	4	135	110
Methyl Ethyl Ketone	200.0	0.5	ND	80	10	88	80
Chloroform	6.00	0.05	ND	90	1	103	90
1,2-Dichloroethane	0.50	0.05	ND	82	1	99	82
Benzene	0.50	0.05	ND	100	0	107	100
Carbon Tetrachloride	0.50	0.05	ND	92	5	117	92
Trichloroethene	0.50	0.05	ND	94	1	102	94
Tetrachloroethene	0.70	0.05	ND	110	1	112	110
Chlorobenzene	100.00	0.05	ND	106	0	103	106
1,4-Dichlorobenzene	7.50	0.05	ND	106	1	107	106

SURROGATES	**% Recovery**
Dibromofluoromethane	95
Toluene-d8	98
4-Bromofluorobenzene	96

*EA out of control limits are 70-130.

ND = Not Detected

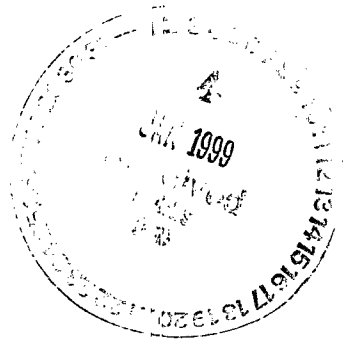
METHODS: EPA SW 846-1311, 8260.
CHEMIST: JS

BS

Director, Dr. Blair Leftwich

12-14-98

DATE



TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Extraction Date: 12/2/98
Analysis Date: 12/4/98
Sampling Date: 11/23/98
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

December 11 1998
Receiving Date: 11/24/98
Sample Type: Soil
Project No: NA
Project Location: NA

T113574 ✓
Crude Contam Soil

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	Conc.	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	85	50	3	106
1,4-Dichlorobenzene	7.5	0.05	ND	86	0	57	108
o-Cresol	200.0	0.05	ND	86	2	55	108
m,p-Cresol	200.0	0.05	ND	76	3	92	95
Hexachloroethane	3.0	0.05	ND	85	2	56	106
Nitrobenzene	2.0	0.05	ND	83	2	59	104
Hexachlorobutadiene	0.5	0.05	ND	88	4	51	110
2,4,6-Trichlorophenol	2.0	0.05	ND	86	2	58	108
2,4,5-Trichlorophenol	400.0	0.05	ND	85	7	58	106
2,4-Dinitrotoluene	0.13	0.05	ND	86	7	78	108
2,4-D	10.0	0.05	ND	78	4	71	98
Hexachlorobenzene	0.13	0.05	ND	89	3	66	111
2,4,5-TP	1.0	0.05	ND	83	23*	63	104
Pentachlorophenol	100.0	0.05	ND	86	2	45	108

Surrogates	**% RECOVERY**
2-Fluorophenol	39
Phenol-d6	27
Nitrobenzene-d5	72
2-Fluorobiphenyl	73
2,4,6-Tribromophenol	87
Terphenyl-d14	104

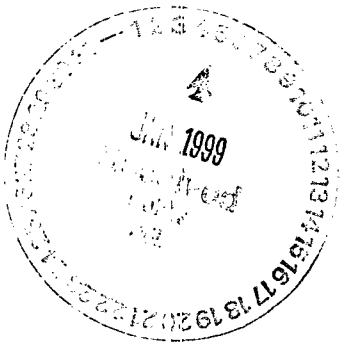
*RPD out of control limit.

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: MA

Director, Dr. Blair Leftwich

12-11-98
DATE


1999

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 14, 1998
Receiving Date: 11/24/98
Sample Type: Soil
Project No: NA
Project Location: N/A

Extraction Date: 12/1/98
Analysis Date: 12/2/98
Sampling Date: 11/23/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T113575 Contam Soil Conc.	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	112	5	199	112
1,1-Dichloroethene	0.70	0.05	ND	110	4	135	110
Methyl Ethyl Ketone	200.0	0.5	ND	80	10	88	80
Chloroform	6.00	0.05	ND	90	1	103	90
1,2-Dichloroethane	0.50	0.05	ND	82	1	99	82
Benzene	0.50	0.05	ND	100	0	107	100
Carbon Tetrachloride	0.50	0.05	ND	92	5	117	92
Trichloroethene	0.50	0.05	ND	94	1	102	94
Tetrachloroethene	0.70	0.05	ND	110	1	112	110
Chlorobenzene	100.00	0.05	ND	106	0	103	106
1,4-Dichlorobenzene	7.50	0.05	ND	106	1	107	106

SURROGATES	**% Recovery**
Dibromofluoromethane	95
Toluene-d8	99
4-Bromofluorobenzene	94

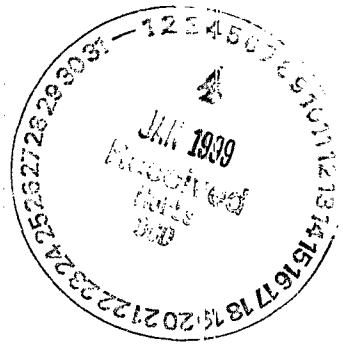
*EA out of control limits are 70-130.

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JS

Director, Dr. Blair Leftwich

12-14-98
DATE


JAN 1939

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 11 1998
Receiving Date: 11/24/98
Sample Type: Soil
Project No: NA
Project Location: NA

Extraction Date: 12/2/98
Analysis Date: 12/4/98
Sampling Date: 11/23/98
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T113575 Contam Soil Conc.	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	85	50	3	106
1,4-Dichlorobenzene	7.5	0.05	ND	86	0	57	108
o-Cresol	200.0	0.05	ND	86	2	55	108
m,p-Cresol	200.0	0.05	ND	76	3	92	95
Hexachloroethane	3.0	0.05	ND	85	2	56	106
Nitrobenzene	2.0	0.05	ND	83	2	59	104
Hexachlorobutadiene	0.5	0.05	ND	88	4	51	110
2,4,6-Trichlorophenol	2.0	0.05	ND	86	2	58	108
2,4,5-Trichlorophenol	400.0	0.05	ND	85	7	58	106
2,4-Dinitrotoluene	0.13	0.05	ND	86	7	78	108
2,4-D	10.0	0.05	ND	78	4	71	98
Hexachlorobenzene	0.13	0.05	ND	89	3	66	111
2,4,5-TP	1.0	0.05	ND	83	23*	63	104
Pentachlorophenol	100.0	0.05	ND	86	2	45	108

Surrogates	**% RECOVERY**
2-Fluorophenol	35
Phenol-d6	23
Nitrobenzene-d5	68
2-Fluorobiphenyl	74
2,4,6-Tribromophenol	68
Terphenyl-d14	104

*RPD out of control limit.

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: MA

Director, Dr. Blair Leftwich

12-11-98
DATE


JAN 1939

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 11, 1998
Receiving Date: 11/24/98
Sample Type: Soil
Project No: N/A
Project Location: N/A

Sampling Date: 11/23/98
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T113574	Crude Contam Soil	<0.10	<0.10	0.02	0.41	0.90	<0.05	2.0	<0.010
T113575	Contam Soil	<0.10	<0.10	<0.02	<0.05	0.22	<0.05	0.31	<0.010
ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.0047
CCV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.0045
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		5	10	10	10	10	11	12	4
% Extraction Accuracy		105	95	105	90	100	116	115	90
% Instrument Accuracy		100	100	100	100	100	100	100	92
PREP DATE		11/24/98	11/24/98	11/24/98	11/24/98	11/24/98	11/24/98	11/24/98	11/24/98
ANALYSIS DATE		11/25/98	11/25/98	11/25/98	11/25/98	11/25/98	11/25/98	11/25/98	12/2/98

METHODS: EPA SW 846-1311, 6010B, 7470.
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
TCLP METALS SPIKE: 2.0mg/L As, Se Cd, Cr, Pb, Ba: .50mg/L Ag Hg SPIKE 0.0050 mg/L
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

12-11-98
Date



TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 14, 1998
Receiving Date: 11/23/98
Sample Type: Soilds
Project No: N/A
Project Location: N/A

Extraction Date: 11/30/98
Analysis Date: 11/30/98
Sample Date: 11/23/98
Sample Condition: Intact & Cool
Sample Received By: VW
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T113574	Crude Contam Soil	Non-reactive	<10	<2.5	Non-corrosive	7.6	Nonignitable
T113575	Contam Soil	Non-reactive	90	5	Non-corrosive	10.1	Nonignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

12-14-98
DATE



113574-75

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 5

Company Name: NAVAJO REFINING CO. Phone #: (505) 748-3311
Address: 501 E. MAIN Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #: Project Name:
Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
113574	CRUDE CONTAM. SOIL	1	1L		X						X	11/23/98	15:15
75	CONTAM. SOIL	1	1L		X						X	11/23/98	15:30

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH				Turn Around Time if different from standard	Hold
					X	X	X	X										
					X	X	X	Y										

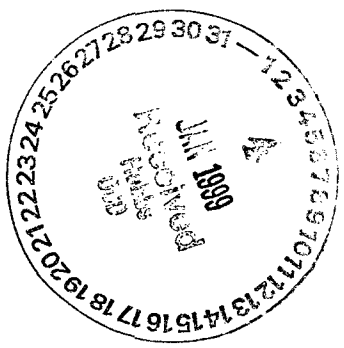
Relinquished by: Bryan Madrid Date: 11/23/98 Time: 16:05
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: Time:
Nicki Wheeler 11-24-98 10:00am

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4°
Log-in Review

REMARKS: 12/15

Carrier # Fedex 217694556 5

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.


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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Bryan Madrid
501 E. Main
Artesia NM 88210

Date: Feb 23, 1998
Date Rec: 2/18/98
Project: N/A
Proj Name: N/A
Proj Loc: N/A

Lab Receiving # : 9802000327
Sampling Date: 2/17/98
Sample Condition: Intact and Cool
Sample Received By: VW

TCLP Vol in Solid (mg/L)	EPA Limit	Reporting Limit	Method Blank	T91382 D-42	QC	RPD	%EA	%IP
Vinyl Chloride	0.2	0.05	ND	ND	115	11	78	115
1,1-Dichloroethene	0.7	0.05	ND	ND	95	5	82	95
Methyl Ethyl Ketone	200.0	0.50	ND	ND	102	4	112	102
Chloroform	6.0	0.05	ND	ND	96	5	106	96
1,2-Dichloroethane	0.5	0.05	ND	ND	95	6	114	95
Benzene	0.5	0.05	ND	ND	104	6	104	104
Carbon Tetrachloride	0.5	0.05	ND	ND	84	1	117	84
Trichloroethene	0020	0.05	ND	ND	98	4	95	98
Tetrachloroethane	0.7	0.05	ND	ND	96	4	97	96
Chlorobenzene	100.0	0.05	ND	ND	99	5	100	99
1,4-Dichlorobenzene	7.5	0.05	ND	0.05	101	3	95	101

	% RECOVERY
Dibromofluoromethane	109
Toluene-d8	98
4-Bromofluorobenzene	101

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Vol	EPA 1311	2/20/98	EPA 8260	2/22/98	AG	100 ea	100 ea

Director, Dr. Blair Leftwich

2-23-98
Date


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
JAN 1999

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

February 27, 1998
Receiving Date: 02/18/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 02/20/98
Analysis Date: 02/21/98
Sampling Date: 02/17/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T91382 D-42	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	86	0	24	108
1,4-Dichlorobenzene	7.5	0.05	ND	84	2	43	105
o-Cresol	200.0	0.05	ND	73	2	45	91
m,p-Cresol	200.0	0.05	ND	82	2	80	102
Hexachloroethane	3.0	0.05	ND	78	2	41	98
Nitrobenzene	2.0	0.05	ND	80	2	52	100
Hexachlorobutadiene	0.5	0.05	ND	81	2	48	101
2,4,6-Trichlorophenol	2.0	0.05	ND	81	11	47	101
2,4,5-Trichlorophenol	400.0	0.05	ND	82	4	45	102
2,4-Dinitrotoluene	0.13	0.05	ND	83	12	52	104
2,4-D	10.0	0.05	ND	76	15	139	95
Hexachlorobenzene	0.13	0.05	ND	84	4	100	105
2,4,5-TP	1.0	0.05	ND	85	17	190	106
Pentachlorophenol	100.0	0.05	ND	72	3	74	90

Surrogates	**% RECOVERY**
2-Fluorophenol	28
Phenol-d6	19
Nitrobenzene-d5	52
2-Fluorobiphenyl	44
2,4,6-Tribromophenol	44
Terphenyl-d14	91

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: MB/JT

Director, Dr. Blair Leftwich

2-27-98
DATE





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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

February 27, 1998
Receiving Date: 02/18/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Extraction Date: 02/21/98
Analysis Date: 02/24/98
Sampling Date: 02/17/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T91382	D-42	<1.0	<1.0	<0.5	<0.5	<1.0	<0.5	<1.0	<0.010
ICV		1.1	1.0	1.0	1.0	1.0	0.20	1.0	0.053
CCV		1.1	1.1	1.0	1.0	1.1	0.20	0.98	0.049
Reporting Limit		1.0	1.0	0.5	0.5	1.0	0.5	1.0	0.010
RPD		8	13	4	0	9	6	4	0
% Extraction Accuracy		125	113	112	110	110	87	118	106
% Instrument Accuracy		110	105	100	100	105	100	99	102

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: HC
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba, Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg.

BS

Director, Dr. Blair Leftwich

2-27-98

Date


1999

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

February 27, 1998
Receiving Date: 02/18/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 02/20/98
Analysis Date: 02/20/98
Sampling Date: 02/17/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T91382	D-42	Non-reactive	<10	<2.5	Non-corrosive	7.0	Non-ignitable
QC	Quality Control	---	---	---	---	8.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		---	---	---	---	100	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

2-27-98
DATE

1999

91382

Page 1 of 1

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 327

Company Name: NAVAJO REFINING CO. Phone #: 505 748 3311

Address: 501 E. MAIN Fax #:

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	CATALYST	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
91382	D-42	1	1L					X				X	3/17/98	10:30

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH					Turn Around Time if different from standard	Hold
					X	X	X	X											

Relinquished by: Bryan Madrid Date: 3/17/98 Time: 16:15
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Vicki Wyndham Date: 3-18-98 Time: 10:25 am

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp -2 °
Log-in Review

REMARKS:
no pest per Bryan M.
3/18/98 VW
3.2

Carrier # FedEx 349 0582 496

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.


1999

Hobbs, NM 88241-1980
District II (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8/
Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining Co
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 501 E. Main Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Sewer insert solids, Vacuum tower (W-62) scale and pall rings and FCC cat fines . See attached Certificate of Waste Status, NMED letter, Navajo letter, analysis and Chain of custody.

03-005

MSDS Submitted 10-2-98 Approved C-138 MJK

SEWER INSERT SOLIDS
(40) 55 gallon drums
(1) rolloff bin w/ 15 yds.

VACUUM TOWER (W-62)
SCALE & PALL RINGS
(10) Drums

FCC CAT FINES
(30) Supersacks

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 3-24-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 4-5-99

APPROVED BY: Martyn J. Kirk TITLE: Env. Geologist DATE: 3-26-99

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 501 E. Main Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM	

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BRIEF DESCRIPTION OF MATERIAL:

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03-005

MSDS Submitted
10-2-98 Approved C-138

SEWER INSERT SOLIDS
(40) 55 gallon drums*
(1) rolloff bin w/ 15 yds.

VACUUM TOWER (W-62)
SCALE & PALL RINGS
(10) Drums

FCC CAT FINES mjk
(30) Supersacks

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

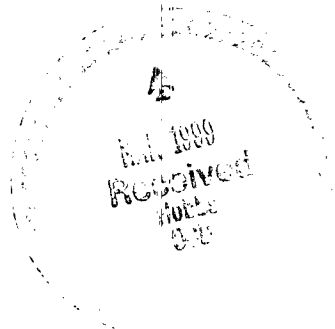
SIGNATURE: K Marsh TITLE: Manager DATE: 3-24-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyn J. Kieling TITLE: Env. Geologist DATE: 3-26-99



TELEPHONE
(505) 748-3311

EASYLINK
62905278

REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

March 23, 1999

Ken Marsh
CRI Inc.
P.O. Box 388
Hobbs, NM 88241

Dear Mr. Marsh:

I would like to get the following wastes profiled into your facility.

1) Sewer insert solids
2) Vacuum tower (W-62) scale and pall rings
3) FCC cat fines

Enclosed you will find a Certificate of Waste Status and, if applicable, an analysis for each waste. Also enclosed is a letter from the NMED Hazardous and Radioactive Materials Bureau concerning the sewer inserts.

If you have any questions, please call me at (505) 748-3311. Thank you for your time in this matter.

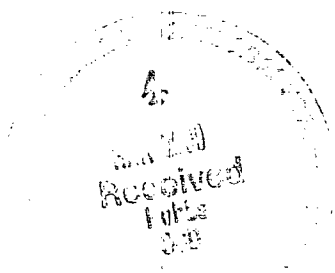
Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 1999



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Solids and debris caught in sewer inserts**

ESTIMATED VOLUME: **Forty 55 gallon drums and 1 roll off bin with 15 yards.**

GENERATING PROCESS: **Solids and debris are caught in inserts before they enter the sewer system.**

REMARKS: **TCLP and letter from the NMED**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated - 20 yard roll off bins**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

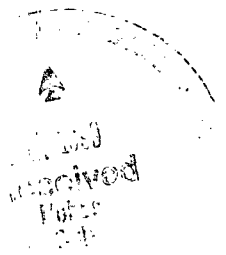
AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 3/23/99



State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo Street
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544

GARY E. JOHNSON
GOVERNOR

PETER MAGGIORE
SECRETARY

January 28, 1999

ATTN: Darrel Moore
Environmental Manager for Water and Waste
Navajo Refining Company
501 East Main Street
P. O. Box 159
Artesia, New Mexico 88211-0159
(505)748-3311

Re: Waste Minimization Program, Sewer Inserts

Dear Mr. Moore:

The New Mexico Environment Department (NMED) - Hazardous and Radioactive Materials Bureau (HRMB) has reviewed the letter and video from Navajo Refining Company (NRC) regarding the "sewer inserts" to be installed in the sewer boxes or sumps to minimize the amount of F037 accumulation.

The HRMB understands that the process wastewater piping runs do not enter the sewer inserts. Based on the information received, HRMB also understands that there are two sources of water reaching the sewer inserts: 1) storm water runoff and 2) process equipment blowdown. The sewer inserts will catch solids and debris that would normally be washed into the sewers by these two water sources, thereby minimizing the amount of F037 waste accumulation.

The HRMB further understands from your letter that NRC will sample the "mud" or sediment accumulated in the sewer inserts per the TCLP to determine if it is characteristically hazardous. Per your telephone conversation with Mr. Billy Barnes, NRC will do a composite sample of the sediment from all sewer inserts once per month for at least six months and have the sample analyzed for a full TCLP. If the samples are clean or non-hazardous, then sampling would only be performed annually there after.

The HRMB accepts your proposal for waste minimization provided that a representative sample of the sediment accumulated in the sewer inserts is collected using a sampling procedure that


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will ensure a good representation of the sediment and minimum loss of volatiles. If a history of analysis reports shows evidence that the sediment is non-hazardous, then the HRMB will concur that the sediment accumulated in the sewer inserts may be handled and disposed of as non-hazardous waste using only one analysis per year, providing that the process for accumulation of sediment does not change.

Please let us know the progress and status of your hazardous waste minimization program regarding F037 when you have a history of analysis reports on file. If you have any questions, please do not hesitate to call me at (505) 827-1508 or Mr. Billy Barnes at 827-1835. A copy of this letter will be forwarded to Mr. Roger Anderson of the Oil Conservation Division as you requested.

The NMED/HRMB commends your efforts and encourages NRC to continue to pursue and promote hazardous waste minimization.

Sincerely,

John M. Tymkowych

John Tymkowych
RCRA Inspection/Enforcement Program Manager, HRMB

cc: Roger Anderson, Bureau Chief, Oil Conservation Division
File


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TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

February 22, 1999
Receiving Date: 02/08/99
Sample Type: Sludge
Project No: NA
Project Location: NA

Prep Date: 02/10/99
Analysis Date: 02/14/99
Sampling Date: 02/05/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T118501 Sewer Inserts	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	98	4	98	98
1,1-Dichloroethene	0.70	0.05	ND	86	5	115	86
Methyl Ethyl Ketone	200.0	0.5	ND	99	9	119	99
Chloroform	6.00	0.05	ND	98	1	104	98
1,2-Dichloroethane	0.50	0.05	ND	95	1	103	95
Benzene	0.50	0.05	ND	100	2	104	100
Carbon Tetrachloride	0.50	0.05	ND	98	2	111	98
Trichloroethene	0.50	0.05	ND	102	2	104	102
Tetrachloroethene	0.70	0.05	ND	112	0	118	112
Chlorobenzene	100.00	0.05	ND	102	0	107	102
1,4-Dichlorobenzene	7.50	0.05	ND	111	0	112	111

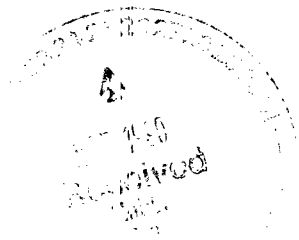
SURROGATES	**% Recovery**
Dibromofluoromethane	105
Toluene-d8	100
4-Bromofluorobenzene	98

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.
CHEMIST: JG

Director, Dr. Blair Leftwich

2-22-99
DATE



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

February 22, 1999
Receiving Date: 02/08/99
Sample Type: Sludge
Project No: NA
Project Location: NA

Extraction Date: 02/15/99
Analysis Date: 02/17/99
Sampling Date: 02/05/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T118501 Sewer Inserts	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	67	2	43	84
1,4-Dichlorobenzene	7.5	0.05	ND	80	0	52	100
o-Cresol	200.0	0.05	ND	67	6	62	84
m,p-Cresol	200.0	0.05	ND	68	6	58	85
Hexachloroethane	3.0	0.05	ND	91	3	55	114
Nitrobenzene	2.0	0.05	ND	74	1	75	93
Hexachlorobutadiene	0.5	0.05	ND	89	1	55	111
2,4,6-Trichlorophenol	2.0	0.05	ND	80	0	83	100
2,4,5-Trichlorophenol	400.0	0.05	ND	82	2	92	103
2,4-Dinitrotoluene	0.13	0.05	ND	82	1	81	103
2,4-D	10.0	0.05	ND	75	0	39	94
Hexachlorobenzene	0.13	0.05	ND	75	0	81	94
2,4,5-TP	1.0	0.05	ND	72	6	39	90
Pentachlorophenol	100.0	0.05	ND	86	1	58	108

Surrogates	**% RECOVERY**
2-Fluorophenol	43
Phenol-d6	29
Nitrobenzene-d5	91
2-Fluorobiphenyl	86
2,4,6-Tribromophenol	79
Terphenyl-d14	99

ND - Not Detected

Methods: EPA SW 846-1311, 8270C.
CHEMIST: SO

Director, Dr. Blair Leftwich

2-22-99
DATE



TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

February 22, 1999
Receiving Date: 02/08/99
Sample Type: Sludge
Project No: NA
Project Location: NA

Prep Date: 02/10/99
Analysis Date: 02/10/99
Sampling Date: 02/05/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T118501	Sewer Inserts	Non-Reactive	110	<2.5	Non-corrosive	6.8	Nonignitable
QC	Quality Control	---	---	---	---	7.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		---	---	---	---	100	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: CS

Director, Dr. Blair Leftwich

2-22-99
DATE


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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

February 22, 1999
Receiving Date: 02/08/99
Sample Type: Sludge
Project No: NA
Project Location: NA

Sampling Date: 02/05/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	Ag	As	Ba	Cd	Cr	Pb	Se	Hg
	EPA LIMIT =	5.0	5.0	100.0	1.0	5.0	5.0	1.0	0.20
T118501	Sewer Inserts	<0.05	<0.10	<0.10	<0.02	0.10	<0.10	<0.10	<0.010
ICV		0.21	1.0	1.0	0.99	1.0	1.0	1.0	0.0048
CCV		0.21	1.0	1.0	1.0	1.0	1.0	1.0	0.0056
Reporting Limit		0.10	0.10	0.10	0.05	0.10	0.10	0.50	0.010
RPD		0	10	4	2	0	9	10	4
% Extraction Accuracy		105	100	100	115	110	110	95	84
% Instrument Accuracy		105	100	100	99	100	100	100	104
EXTRACTION DATE		02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/10/99
ANALYSIS DATE		02/11/99	02/11/99	02/11/99	02/11/99	02/11/99	02/11/99	02/11/99	02/12/99

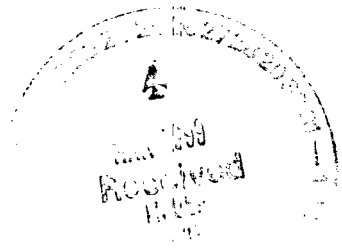
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.40 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.0050 mg/L Hg.

BL

Director, Dr. Blair Leftwich

2-22-99

Date



118501

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 30

Company Name: NAVAJO REFINING Co. Phone #: (505) 748-3311

Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210 Fax #: (505) 748-9077

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
118501	SEWER INSERTS	1	1L				X				X	2/5/99	13:00

ANALYSIS REQUEST (Circle or Specify Method No.)

	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
118501						X	X	X		X											

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	Bryan Madrid	2/5/99	16:15			
	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				[illegible]	2-8-99	9:30

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp °
Log-in Review

REMARKS:

✓

2/22

Carrier # Fed Ex 236 336 351

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.


Received

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Bryan Madrid
501 E. Main
Artesia NM 88210

Date: Dec 08, 1997
Date Rec: 11/24/97
Project: N/A
Proj Name: N/A
Proj Loc: N/A

Lab Receiving # : 9712000033
Sampling Date: 11/24/97
Sample Condition: Intact and Cool
Sample Received By: VW

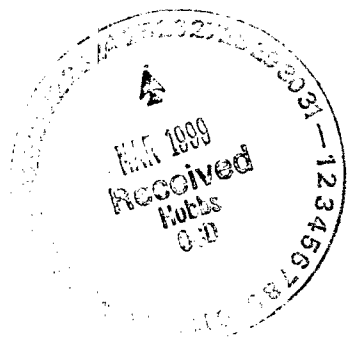
TCLP Vol in Solid (mg/L)	EPA Limit	Reporting Limit	Method Blank	T86399 Sewer Inserts	QC	RPD	%EA	%IA
Vinyl Chloride	0.2	0.05	ND	ND	86	2	101	86
1,1-Dichloroethene	0.7	0.05	ND	ND	88	8	85	88
Methyl Ethyl Ketone	200.0	0.50	ND	ND	80	9	84	80
Chloroform	6.0	0.05	ND	ND	88	7	96	88
1,2-Dichloroethane	0.5	0.05	ND	ND	87	9	92	87
Benzene	0.5	0.05	ND	0.10	87	7	94	87
Carbon Tetrachloride	0.5	0.05	ND	ND	104	5	105	104
Trichloroethene	0.5	0.05	ND	ND	87	5	97	87
Tetrachloroethane	0.7	0.05	ND	ND	83	6	96	83
Chlorobenzene	100.0	0.05	ND	0.08	84	6	90	84
1,4-Dichlorobenzene	7.5	0.05	ND	ND	85	7	93	85

	% RECOVERY
Dibromofluoromethane	103
Toluene-d8	102
4-Bromofluorobenzene	100

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Vol	EPA 1311	12/2/97	EPA 8260	12/3/97	RW	100 ea	100 ea

Director, Dr. Blair Leftwich

12-8-97
Date


MAR 1999
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Hobbs
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Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Bryan Madrid
501 E. Main
Artesia NM 88210

Date: Dec 08, 1997
Date Rec: 11/24/97
Project: N/A
Proj Name: N/A
Proj Loc: N/A

Lab Receiving # : 9712000033
Sampling Date: 11/24/97
Sample Condition: Intact and Cool
Sample Received By: VW

TCLP Semivolatiles in Solid (mg/L)	EPA Limit	Reporting Limit	Method Blank	T86399 Sewer Inserts	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	ND	92	0	0	92
1,4-Dichlorobenzene	7.5	0.05	ND	ND	91	3	64	91
o-Cresol	200.0	0.05	ND	ND	93	4	110	93
m,p-Cresol	200.0	0.05	ND	ND	94	7	286	94
Hexachloroethane	3.0	0.05	ND	ND	88	4	92	88
Nitrobenzene	2.0	0.05	ND	ND	84	3	76	84
Hexachlorobutadiene	0.5	0.05	ND	ND	75	5	42	75
2,4,6-Trichlorophenol	2.0	0.05	ND	ND	90	2	85	90
2,4,5-Trichlorophenol	400.0	0.05	ND	ND	92	2	94	92
2,4-Dinitrotoluene	0.13	0.05	ND	ND	92	2	80	92
2,4-D	10.0	0.05	ND	ND	84	2	176	84
Hexachlorobenzene	0.13	0.05	ND	ND	90	4	94	90
2,4,5-TP	1.0	0.05	ND	ND	76	4	314	76
Pentachlorophenol	100.0	0.05	ND	ND	83	12	124	83

ND = Not Detected

Surrogate	% RECOVERY	Surrogate	% RECOVERY
2-Fluorophenol	66	2-Fluorobiphenyl	86
Phenol-D6	24	2,4,6-Tribromophenol	56
Nitrobenzene-d5	68	Terphenyl-d14	92

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Semi	EPA 1311	12/3/97	EPA 8270	12/5/97	RP/HW	100 ea	100 ea

Director, Dr. Blair Leftwich

12-8-97
Date


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Hutts

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL REPORT

CLIENT NAVAJO REFINING COMPANY
501 E MAIN/PO BOX 159
ARTESIA, NM 88211

SAMPLE NO. : 7704415
INVOICE NO.: TE0255
REPORT DATE: 12-05-97
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : SEWER INSERTS
SAMPLE TYPE .....: SLUDGE
SAMPLED BY .....: B. MADRID
SUBMITTED BY ....: B. MADRID
SAMPLE SOURCE ...: --

AUTHORIZED BY : B. MADRID
CLIENT P.O. : --
SAMPLE DATE ...: 11-24-97
SUBMITTAL DATE : 11-24-97
EXTRACTION DATE: --

TCLP Metals

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Arsenic (TCLP)	0.052	mg/L	0.050	12-01-97	SW846 7061	N. Munir
Barium (TCLP)	<5.0	mg/L	5.0	12-03-97	SW846 7080A	N. Munir
Cadmium (TCLP)	<0.25	mg/L	0.25	12-02-97	SW846 7130	N. Munir
Chromium (TCLP)	<0.50	mg/L	0.50	12-03-97	SW846 7190	N. Munir
Lead (TCLP)	<0.75	mg/L	0.75	12-03-97	SW846 7420	N. Munir
Mercury (TCLP)	<0.010	mg/L	0.010	12-01-97	SW846 7471A	N. Munir
Selenium (TCLP)	<0.050	mg/L	0.050	12-02-97	SW846 7741A	N. Munir
Silver (TCLP)	<0.25	mg/L	0.25	12-01-97	SW846 7760A	N. Munir

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

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TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
NAVAJO REFINING COMPANY
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 08, 1997
Receiving Date: 11/24/97
Sample Type: Sludge
Project No: NA
Project Location: NA

Extraction Date: 12/03/97
Analysis Date: 12/03/97
Sampling Date: 11/24/97
Sample Condition: I & C
Sample Received by: RP
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)
	EPA LIMIT =	—	500	250	—	<2 >12.5
T86396/7704412	Vacuum Tower Scale	Non-reactive	<10	<2.5	Non-corrosive	6.7
T86399/7704415	Sewer Inserts	Non-reactive	280	80	Non-corrosive	7.3
T86400/7704416	Exchanger Sludge	Non-reactive	<10	<2.5	Non-corrosive	6.6
T86405/7704421	Flare K.O. Drum Scale	Non-reactive	<10	<2.5	Non-corrosive	6.9
T86407/7704423	Depropanizer Scale	Non-reactive	<10	<2.5	Non-corrosive	4.4
T86408/7704424	Cooling Tower Sludge	Non-reactive	<10	<2.5	Non-corrosive	7.8
QC	Quality Control	—	—	—	—	7.0
RPD		0	0	9	0	0
% Extraction Accuracy		—	—	108	—	—
% Instrument Accuracy		—	—	106	—	100

METHODS: EPA SW 846-2.1.3, 2.1.2.
CHEMIST: JG

Director, Dr. Blair Leftwich

12-8-97
DATE


MAR 1999
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TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

Client **NAVAJO REFINING COMPANY**
501 E MAIN/PO BOX 159
ARTESIA, NM 88211

Invoice No. **TE0255**
Report Date **12-22-97**
Reviewed by
Page **1** of **1**

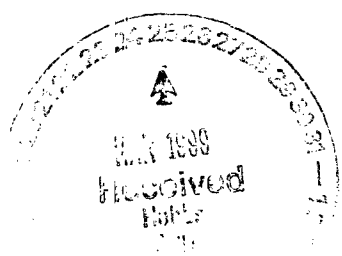
Parameter **Flash Point**
Test Method **SW-1010**
Authorized by **B. MADRID**
Client P.O.

LAB NO.	CLIENT SAMPLE ID	RESULT	UNIT	DETECTION LIMIT	SAMPLE DATE	ANALYSIS DATE
7704412	VACUUM TOWER SCALE	>180	degrees F	N/A	11-24-97	12-02-97
7704413	CERAMIC SUPPORT MEDIA	>180	degrees F	N/A	11-24-97	12-02-97
7704414	SAND FILTER	>180	degrees F	N/A	11-24-97	12-02-97
7704415	SEWER INSERTS	>180	degrees F	N/A	11-24-97	12-02-97
7704416	EXCHANGE SLUDGE	>180	degrees F	N/A	11-24-97	12-03-97
7704417	BLAST SAND	>180	degrees F	N/A	11-24-97	12-03-97
7704418	HYDROCARBON CONTAM. SOIL	>180	degrees F	N/A	11-24-97	12-03-97
7704419	DESULFURIZATION CATALYST	>180	degrees F	N/A	11-24-97	12-03-97
7704420	BAUXITE DRYER MEDIA	>180	degrees F	N/A	11-24-97	12-04-97
7704421	FLARE K.O. DRUM SCALE	112	degrees F	N/A	11-24-97	12-04-97
7704422	COKED TRAYS	>180	degrees F	N/A	11-24-97	12-04-97
7704423	DEPROPANIZER SCALE	>180	degrees F	N/A	11-24-97	12-04-97
7704424	COOLING TOWER SLUDGE	>180	degrees F	N/A	11-24-97	12-04-97

(1) Copy to Client

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

MANAGING DIRECTOR



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **Vacuum tower (W-62) scale and pall rings.**

ESTIMATED VOLUME: **10 yards**

GENERATING PROCESS: **Scale is built up on walls of vacuum tower during the process of refining crude into products such as asphalt and gas oils. Pall rings aid in separation.**

REMARKS: **Ealier analysis enclosed - Process has not changed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 3/23/99


MAR 1990
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6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Bryan Madrid
501 E. Main
Artesia NM 88210

Date: Dec 08, 1997
Date Rec: 11/24/97
Project: N/A
Proj Name: N/A
Proj Loc: N/A

Lab Receiving # : 9712000033
Sampling Date: 11/24/97
Sample Condition: Intact and Cool
Sample Received By: VW

TCLP Vol in Solid (mg/L)	EPA Limit	Reporting Limit	Method Blank	T86396 Vacuum Tower Scale	QC	RPD	%EA	%IA
Vinyl Chloride	0.2	0.05	ND	ND	86	2	101	86
1,1-Dichloroethene	0.7	0.05	ND	ND	88	8	85	88
Methyl Ethyl Ketone	200.0	0.50	ND	ND	80	9	84	80
Chloroform	6.0	0.05	ND	ND	88	7	96	88
1,2-Dichloroethane	0.5	0.05	ND	ND	87	9	92	87
Benzene	0.5	0.05	ND	ND	87	7	94	87
Carbon Tetrachloride	0.5	0.05	ND	ND	104	5	105	104
Trichloroethene	0.5	0.05	ND	ND	87	5	97	87
Tetrachloroethane	0.7	0.05	ND	ND	83	6	96	83
Chlorobenzene	100.0	0.05	ND	ND	84	6	90	84
1,4-Dichlorobenzene	7.5	0.05	ND	ND	85	7	93	85

✓

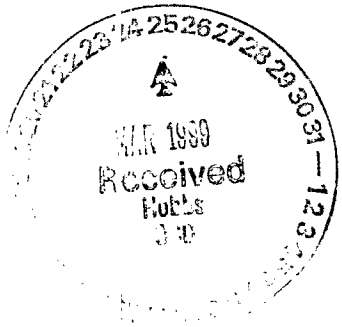
	% RECOVERY
Dibromofluoromethane	101
Toluene-d8	101
4-Bromofluorobenzene	99

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Vol	EPA 1311	12/2/97	EPA 8260	12/3/97	RW	100 ea	100 ea

Director, Dr. Blair Leftwich

12-8-97
Date

TRACEANALYSIS, INC.
An Institute for Advanced Environmental Research and Analysis


MAR 1989
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6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Bryan Madrid
501 E. Main
Artesia NM 88210

Date: Dec 08, 1997
Date Rec: 11/24/97
Project: N/A
Proj Name: N/A
Proj Loc: N/A

Lab Receiving # : 9712000033
Sampling Date: 11/24/97
Sample Condition: Intact and Cool
Sample Received By: VW

TCLP Semivolatiles in Solid (mg/L)	EPA Limit	Reporting Limit	Method Blank	T86396 Vacuum Tower Scale	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	ND	92	0	0	92
1,4-Dichlorobenzene	7.5	0.05	ND	ND	91	3	64	91
o-Cresol	200.0	0.05	ND	ND	93	4	110	93
m,p-Cresol	200.0	0.05	ND	ND	94	7	286	94
Hexachloroethane	3.0	0.05	ND	ND	88	4	92	88
Nitrobenzene	2.0	0.05	ND	ND	84	3	76	84
Hexachlorobutadiene	0.5	0.05	ND	ND	75	5	42	75
2,4,6-Trichlorophenol	2.0	0.05	ND	ND	90	2	85	90
2,4,5-Trichlorophenol	400.0	0.05	ND	ND	92	2	94	92
2,4-Dinitrotoluene	0.13	0.05	ND	ND	92	2	80	92
2,4-D	10.0	0.05	ND	ND	84	2	176	84
Hexachlorobenzene	0.13	0.05	ND	ND	90	4	94	90
2,4,5-TP	1.0	0.05	ND	ND	76	4	314	76
Pentachlorophenol	100.0	0.05	ND	ND	83	12	124	83

✓

ND = Not Detected

Surrogate	% RECOVERY	Surrogate	% RECOVERY
2-Fluorophenol	70	2-Fluorobiphenyl	110
Phenol-D6	82	2,4,6-Tribromophenol	70
Nitrobenzene-d5	88	Terphenyl-d14	106

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Semi	EPA 1311	12/3/97	EPA 8270	12/5/97	RP/HW	100 ea	100 ea

Director, Dr. Blair Leftwich

12-8-97
Date


MAR 1999
Received

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL REPORT

CLIENT NAVAJO REFINING COMPANY
501 E MAIN/PO BOX 159
ARTESIA, NM 88211

SAMPLE NO. : 7704412
INVOICE NO.: TE0255
REPORT DATE: 12-05-97
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : VACUUM TOWER SCALE
SAMPLE TYPE .....: SLUDGE
SAMPLED BY .....: B. MADRID
SUBMITTED BY ....: B. MADRID
SAMPLE SOURCE ...: --

AUTHORIZED BY : B. MADRID
CLIENT P.O. : --
SAMPLE DATE ...: 11-24-97
SUBMITTAL DATE : 11-24-97
EXTRACTION DATE: --

TCLP Metals

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Arsenic (TCLP)	0.054	mg/L	0.050	12-01-97	SW846 7061	N. Munir
Barium (TCLP)	<5.0	mg/L	5.0	12-03-97	SW846 7080A	N. Munir
Cadmium (TCLP)	<0.25	mg/L	0.25	12-02-97	SW846 7130	N. Munir
Chromium (TCLP)	<0.50	mg/L	0.50	12-03-97	SW846 7190	N. Munir
Lead (TCLP)	<0.75	mg/L	0.75	12-03-97	SW846 7420	N. Munir
Mercury (TCLP)	<0.010	mg/L	0.010	12-01-97	SW846 7471A	N. Munir
Selenium (TCLP)	0.061	mg/L	0.050	12-02-97	SW846 7741A	N. Munir
Silver (TCLP)	<0.25	mg/L	0.25	12-01-97	SW846 7760A	N. Munir

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

(1) Copy to Client


MAR 1999
Received

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
NAVAJO REFINING COMPANY
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

December 08, 1997
Receiving Date: 11/24/97
Sample Type: Sludge
Project No: NA
Project Location: NA

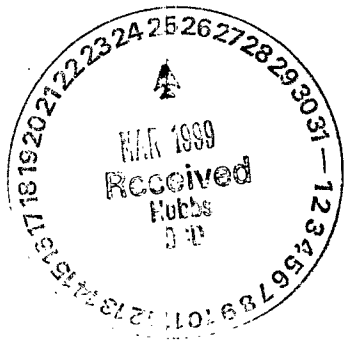
Extraction Date: 12/03/97
Analysis Date: 12/03/97
Sampling Date: 11/24/97
Sample Condition: I & C
Sample Received by: RP
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)
	EPA LIMIT =	---	500	250	---	<2 >12.5
T86396/7704412	Vacuum Tower Scale	Non-reactive	<10	<2.5	Non-corrosive	6.7
T86399/7704415	Sewer Inserts	Non-reactive	280	80	Non-corrosive	7.3
T86400/7704416	Exchanger Sludge	Non-reactive	<10	<2.5	Non-corrosive	6.6
T86405/7704421	Flare K.O. Drum Scale	Non-reactive	<10	<2.5	Non-corrosive	6.9
T86407/7704423	Depropanizer Scale	Non-reactive	<10	<2.5	Non-corrosive	4.4
T86408/7704424	Cooling Tower Sludge	Non-reactive	<10	<2.5	Non-corrosive	7.8
QC	Quality Control	---	---	---	---	7.0
RPD		0	0	9	0	0
% Extraction Accuracy		---	---	108	---	---
% Instrument Accuracy		---	---	106	---	100

METHODS: EPA SW 846-2.1.3, 2.1.2.
CHEMIST: JG

Director, Dr. Blair Leftwich

12-8-97
DATE


MAR 1999
Received
Hobbs
OCD

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #

Company Name: NAVAJO REFINING Co. Phone #:

Address: Fax #:

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	CANISTER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
770 44112	VACUUM TOWER SCALE	1	1L				X				X	X	11-24-97	8:00
44113	CERAMIC SUPPORT MEDIA	1	1L					X			X	X	11-24-97	8:15
44114	SAND FILTER	1	1L					X			X	X	11-24-97	8:30
44115	SEWER INSERTS	1	1L				X				X	X	11-24-97	8:45
44116	EXCHANGER SLUDGE	1	1L				X				X	X	11-24-97	9:00
44117	BLAST SAND	1	1L		X						X	X	11-24-97	9:15
44118	HYDROCARBON CONTAMINATED SOIL	1	1L		X						X	X	11-24-97	9:30
44119	DESULFURIZATION CATALYST	1	1L					X			X	X	11-24-97	9:45
44120	BAUXITE DRYER MEDIA	1	1L					X			X	X	11-24-97	10:00
44121	FLARE K.O. DRUM SCALE	1	1L				X				X	X	11-24-97	10:15
770 44122	COKED TRAYS	1	1L								X	X	11-24-97	10:30

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							
					X	X	X	X							

Relinquished by: Date: Time: Received by: Date: Time:

Bryan Madrid 11-24-97 12:00

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Date: Time:

11/24/97 12:00

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp °

Log-in Review

REMARKS:

Rec on ice

Carrier #


MAR 1999
Received
Hobbs
OCD

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **FCC Catalyst Fines**

ESTIMATED VOLUME: **30 Supersacks**

GENERATING PROCESS: **These are the fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process.**

REMARKS: **This waste has been approved in the past and is generated on a regular basis.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated in 20 yard roll off bins**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA,NM 88210

DATE: 3/23/99


Received

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
Originated 8

RECEIVED
APR 15 1999
Environmental Bureau
Oil Conservation Division

Submit Ori
Plus 1 C
to approp
District O

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator Navajo Refnining
	5. Originating Site 501 E. Main Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM 88241
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM 88211-0159	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Hydrocarbon Contaminated soil, D-342 catalyst, D-759 catalyst and asphalt sample cans. See attached Certificate of Waste Status, analysis and Chain of custody, and Navajo letter[illegible] lab [illegible].

04-002

1) Hydrocarbon Cont. Soil
60 yards

2) D-345 Catalyst
15 yards

3) D-759 (carbon filter) catalyst
10 yards

4) Asphalt sample cans
10 drums

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 4-14-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Eng. DATE: 4-19-99

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 4-15-99

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/

RECEIVED
APR 15 1999
Environmental Bureau
Oil Conservation Division

Submit Orig
Plus 1 C
to Appropr
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refnining
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 501 E. Main Artesia, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM 88241
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM 88211-0159	

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A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Hydrocarbon Contaminated soil, D-342 catalyst, D-759 catalyst and asphalt sample cans. See attached Certificate of Waste Status, analysis and Chain of custody, and Navajo letter. Navajo letter.

04-002

1) Hydrocarbon Cont. Soil
60 yards

2) D-345 Catalyst
15 yards

3) D-759 (carbon filter) catalyst
10 yards

4) Asphalt sample cans
10 drums

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Ken Marsh
Waste Management Facility Authorized Agent

TITLE: Manager

DATE: 4-14-99

TYPE OR PRINT NAME: Ken Marsh

TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 4-15-99

TELEPHONE
(505) 748-3311

EASYLINK
62905278

Navajo REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

April 9, 1999

Ken Marsh
CRI Inc.
P.O. Box 388
Hobbs, NM 88241

Dear Mr. Marsh:

I would like to get the following wastes profiled into your facility.

1) Hydrocarbon contaminated soil
2) D-342 catalyst
3) D-759 catalyst
4) Asphalt sample cans.

Enclosed you will find a Certificate of Waste Status and, if applicable, an analysis for each waste. These wastes will will be hauled in 20 yard roll off bins to your landfill.

If you have any questions, please call me at (505) 748-3311. Thank you for your time in this matter.

Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 1999

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Hydrocarbon contaminated soil

ESTIMATED VOLUME: 60 yards

GENERATING PROCESS: Soil came from various spill clean ups from around the plant.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: Lea Land Incorporated

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 4/9/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Soil
Project No:
Project Location:

Extraction Date: 03/28/99
Analysis Date: 04/01/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name:

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T121499 HydroCarbon Cont. Soil	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	115	4	118	115
1,1-Dichloroethene	0.70	0.05	ND	109	3	116	109
Methyl Ethyl Ketone	200.0	0.5	ND	101	8	92	101
Chloroform	6.00	0.05	ND	94	4	116	94
1,2-Dichloroethane	0.50	0.05	ND	86	2	113	86
Benzene	0.50	0.05	ND	113	1	112	113
Carbon Tetrachloride	0.50	0.05	ND	99	3	131	99
Trichloroethene	0.50	0.05	ND	107	0	115	107
Tetrachloroethene	0.70	0.05	ND	115	2	123	115
Chlorobenzene	100.00	0.05	ND	103	3	110	103
1,4-Dichlorobenzene	7.50	0.05	ND	105	3	114	105

SURROGATES	% Recovery
Dibromofluoromethane	94
Toluene-d8	100
4-Bromofluorobenzene	98

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG

Director, Dr. Blair Leftwich

4-6-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Soil
Project No:
Project Location:

Set Date: 03/25/99
Extraction Date: 03/26/99
Analysis Date: 03/28/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name:

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T121499 Hydro Carbon Cont. Soil	QC	RPD	%EA	%IA
Pyridine	5.0	0.5	ND	85	5	44	106
1,4-Dichlorobenzene	7.5	0.5	ND	84	1	57	105
o-Cresol	200.0	0.5	ND	78	2	62	98
m,p-Cresol	200.0	0.5	ND	79	1	56	99
Hexachloroethane	3.0	0.5	ND	79	2	51	99
Nitrobenzene	2.0	0.5	ND	81	1	70	101
Hexachlorobutadiene	0.5	0.5	ND	83	0	55	104
2,4,6-Trichlorophenol	2.0	0.5	ND	82	0	71	102
2,4,5-Trichlorophenol	400.0	0.5	ND	79	1	70	99
2,4-Dinitrotoluene	0.13	0.5	ND	80	0	64	100
2,4-D	10.0	0.5	ND	82	1	23	102
Hexachlorobenzene	0.13	0.5	ND	79	1	71	99
2,4,5-TP	1.0	0.5	ND	81	1	22	101
Pentachlorophenol	100.0	0.5	ND	72	0	54	90

Surrogates	**% RECOVERY**
2-Fluorophenol	49
Phenol-d6	30
Nitrobenzene-d5	81
2-Fluorobiphenyl	81
2,4,6-Tribromophenol	96
Terphenyl-d14	101

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG

Director, Dr. Blair Leftwich

4-6-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Soil
Project No:
Project Location:

Sampling Date: 03/23/99
Sample Condition: I & C
Sample Received by: VW
Project Name:

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T121499	HydroCarbon Cont. Soil	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	<0.10	<0.010
ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.0050
CCV		1.0	1.0	1.0	1.0	0.97	0.20	1.0	0.0046
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		5	5	0	0	0	0	0	9
% Extraction Accuracy		95	100	90	100	100	100	100	82
% Instrument Accuracy		100	100	100	100	100	100	100	96
PREP DATE		03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99
ANALYSIS DATE		03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/29/99

METHODS: EPA SW 846-1311, 6010B, 7470
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
TCLP METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb, Ba: 1.0 mg/L Ag Hg SPIKE: 0.0050
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.050

Director, Dr. Blair Leftwich

4-6-99
Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Soil
Project #: N/A
Project Location: N/A

Extraction Date: 03/25/99
Analysis Date: 03/25/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T121499	HydroCarbon Cont. Soil	Non-reactive	<10	<2.5	Non-corrosive	8.7	Nonignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: SO

Director, Dr. Blair Leftwich

4-6-99
Date

121498-500

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99032412 / 13 / 14

Company Name: NAVAJO REFINING Co. Phone #: (505) 748-3311

Address: (Street, City, Zip) 501 E MAIN ARTESIA, 88210 Fax #: (505) 748-9077

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
121498	D-759	1	1L		X			X glass			X	X	3/23/99	8:15
99	HYDROCARBON CONT. SOIL	1	1L		X						X	X	3/23/99	9:00
500	TK BTMS	1	1L				X				X	X	3/23/99	11:00

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC-MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH						Turn Around Time if different from standard	Hold
					X	X	X		X												
					X	X	X		X												
					X	X	X		X												

Relinquished by: Bryan Madrid	Date: 3/23/99	Time: 16:15	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received at laboratory by: Date: 3-24-99 Time: 10:00

LAB USE ONLY
Intact (Y / N)
Headspace: Y / N
Temp 4 °
Log-In Review

REMARKS:
4/6/99
244 4192 012

Carrier # Fedex 244192012

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **D-342 Catalyst**

ESTIMATED VOLUME: **15 yards**

GENERATING PROCESS: **Catalyst strips hydorgen chloride from reformate in the Continuous Catalytic Regeneration (CCR) Reformer Unit.**

REMARKS: **Ealier analysis enclosed - Process has not changed.** ✓

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 4/9/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/08/98
Analysis Date: 03/09/98
Sampling Date: 03/03/98
Sample Condition: I & C
Sample Received by: BW
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T92665/980823 D-342	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	111	4	117	111
1,1-Dichloroethene	0.70	0.05	ND	95	3	103	95
Methyl Ethyl Ketone	200.0	0.5	ND	106	3	105	106
Chloroform	6.00	0.05	ND	100	2	110	100
1,2-Dichloroethane	0.50	0.05	ND	101	4	110	101
Benzene	0.50	0.05	ND	105	0	111	105
Carbon Tetrachloride	0.50	0.05	ND	83	2	113	83
Trichloroethene	0.50	0.05	ND	98	0	104	98
Tetrachloroethene	0.70	0.05	ND	98	3	107	98
Chlorobenzene	100.00	0.05	ND	101	0	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	100	1	104	100

SURROGATES	**% Recovery**
Dibromofluoromethane	100
Toluene-d8	96
4-Bromofluorobenzene	97

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: AG

Director, Dr. Blair Leftwich

3-13-98
DATE

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/05/98
Analysis Date: 03/08/98
Sampling Date: 03/03/98
Sample Condition: Intact & Cool
Sample Received by: BW
Project Name: NA

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T92665/980823 D-342	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	76	47**	34	95
1,4-Dichlorobenzene	7.5	0.05	ND	75	27**	46	94
o-Cresol	200.0	0.05	ND	71	23**	69	89
m,p-Cresol	200.0	0.05	ND	78	23**	120	97
Hexachloroethane	3.0	0.05	ND	76	30**	35	95
Nitrobenzene	2.0	0.05	ND	75	26**	78	94
Hexachlorobutadiene	0.5	0.05	ND	75	33**	35	94
2,4,6-Trichlorophenol	2.0	0.05	ND	73	25**	79	91
2,4,5-Trichlorophenol	400.0	0.05	ND	84	26**	79	105
2,4-Dinitrotoluene	0.13	0.05	ND	73	35**	87	91
2,4-D	10.0	0.05	ND	80	39**	70	100
Hexachlorobenzene	0.13	0.05	ND	76	26**	76	95
2,4,5-TP	1.0	0.05	ND	73	44**	1	91
Pentachlorophenol	100.0	0.05	ND	77	38**	68	96

Surrogates	% RECOVERY
2-Fluorophenol	50
Phenol-d6	36
Nitrobenzene-d5	74
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	94
Terphenyl-d14	75

****NOTE: RPD out of range <20%.**

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: MB

Director, Dr. Blair Leftwich

3-13-98
DATE

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E-Mail: lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT Navajo Refing Co.
501 E. Main
Artesia, NM 88211

SAMPLE NO. : 980823
INVOICE NO.: 22101770
REPORT DATE: 03-13-98
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : D-342
SAMPLE TYPE .....: Catalyst
SAMPLED BY .....: BM
SUBMITTED BY ....: BM
SAMPLE SOURCE ...: --

AUTHORIZED BY : B. Madrid
CLIENT P.O. : --
SAMPLE DATE ...: 03-03-98
SUBMITTAL DATE : 03-04-98
EXTRACTION DATE: --

REMARKS -

Matrix spike and matrix spike duplicate were out of acceptance criteria range possibly due to matrix interference for the following parameter(s): Silver.

TCLP Metals

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Arsenic (TCLP)	<0.050	mg/L	0.050	03-10-98	SW846 7061	N. Munir
Barium (TCLP)	<5.0	mg/L	5.0	03-11-98	SW846 7080A	N. Munir
Cadmium (TCLP)	<0.25	mg/L	0.25	03-11-98	SW846 7130	N. Munir
Chromium (TCLP)	<0.50	mg/L	0.50	03-11-98	SW846 7190	N. Munir
Lead (TCLP)	<0.75	mg/L	0.75	03-11-98	SW846 7420	N. Munir
Mercury (TCLP)	<0.010	mg/L	0.010	03-06-98	SW846 7471A	N. Munir
Selenium (TCLP)	<0.050	mg/L	0.050	03-11-98	SW846 7741A	N. Munir
Silver (TCLP)	<0.25	mg/L	0.25	03-11-98	SW846 7760A	N. Munir

ANALYTICAL RESULT(S) REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

(1) Copy to Client

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Extraction Date: 03/05/98
Analysis Date: 03/05/98
Sampling Date: 03/03/98
Sample Condition: Intact & Cool
Sample Received by: BW
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T92665/980823	D-342	Non-reactive	40	5.0	Non-corrosive	10.7	Nonignitable
QC	Quality Control	---	---	---	---	7.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		---	---	---	---	100	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

3-13-98
DATE

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #

Company Name: NAVAJO REFINING CO. Phone #:

Address: 501 E. MAIN Fax #:

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	CATALYST	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
980823	D-342	1	1L					X				X	3/3/98	10:30
824	CRUDE CONT. SOIL	1	1L		X							X	3/3/98	12:15

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold
					X	X	X	X							
					X	X	X	X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	3-3-98	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				3-4-98	1040

LAB USE ONLY
Intact (Y) N
Headspace Y / N N/A
Temp 2 °C
Log-in Review

REMARKS:
349 2990 934

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

349 2990 934

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **D-759 (carbon filter) catalyst**

ESTIMATED VOLUME: **10 yards**

GENERATING PROCESS: **Catalyst used to absorb any hydrocarbons during amine regeneration.**

REMARKS: **Analysis enclosed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Lea Land Incorporated**

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 4/9/99

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Catalyst
Project No:
Project Location:

Extraction Date: 03/28/99
Analysis Date: 04/01/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name:

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T121498 D-759	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	115	4	118	115
1,1-Dichloroethene	0.70	0.05	ND	109	3	116	109
Methyl Ethyl Ketone	200.0	0.5	ND	101	8	92	101
Chloroform	6.00	0.05	ND	94	4	116	94
1,2-Dichloroethane	0.50	0.05	ND	86	2	113	86
Benzene	0.50	0.05	ND	113	1	112	113
Carbon Tetrachloride	0.50	0.05	ND	99	3	131	99
Trichloroethene	0.50	0.05	ND	107	0	115	107
Tetrachloroethene	0.70	0.05	ND	115	2	123	115
Chlorobenzene	100.00	0.05	ND	103	3	110	103
1,4-Dichlorobenzene	7.50	0.05	ND	105	3	114	105

SURROGATES	**% Recovery**
Dibromofluoromethane	90
Toluene-d8	102
4-Bromofluorobenzene	96

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG

Director, Dr. Blair Leftwich

4-6-99
Date

TRACEANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Catalyst
Project No:
Project Location:

Set Date: 03/25/99
Extraction Date: 03/26/99
Analysis Date: 03/28/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name:

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T121498 D-759	QC	RPD	%EA	%IA
Pyridine	5.0	0.5	ND	85	5	44	106
1,4-Dichlorobenzene	7.5	0.5	ND	84	1	57	105
o-Cresol	200.0	0.5	ND	78	2	62	98
m,p-Cresol	200.0	0.5	ND	79	1	56	99
Hexachloroethane	3.0	0.5	ND	79	2	51	99
Nitrobenzene	2.0	0.5	ND	81	1	70	101
Hexachlorobutadiene	0.5	0.5	ND	83	0	55	104
2,4,6-Trichlorophenol	2.0	0.5	ND	82	0	71	102
2,4,5-Trichlorophenol	400.0	0.5	ND	79	1	70	99
2,4-Dinitrotoluene	0.13	0.5	ND	80	0	64	100
2,4-D	10.0	0.5	ND	82	1	23	102
Hexachlorobenzene	0.13	0.5	ND	79	1	71	99
2,4,5-TP	1.0	0.5	ND	81	1	22	101
Pentachlorophenol	100.0	0.5	ND	72	0	54	90

Surrogates	**% RECOVERY**
2-Fluorophenol	54
Phenol-d6	32
Nitrobenzene-d5	90
2-Fluorobiphenyl	85
2,4,6-Tribromophenol	92
Terphenyl-d14	111

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG

Director, Dr. Blair Leftwich

4-6-99
Date

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Catalyst
Project No:
Project Location:

Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

Sampling Date: 03/23/99
Sample Condition: I & C
Sample Received by: VW
Project Name:

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T121498	D-759	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	<0.10	<0.010
ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.0050
CCV		1.0	1.0	1.0	1.0	0.97	0.20	1.0	0.0046
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		5	5	0	0	0	0	0	9
% Extraction Accuracy		95	100	90	100	100	100	100	82
% Instrument Accuracy		100	100	100	100	100	100	100	96
PREP DATE		03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99
ANALYSIS DATE		03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/29/99

METHODS: EPA SW 846-1311, 6010B, 7470
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
TCLP METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb, Ba: 1.0 mg/L Ag Hg SPIKE: 0.0050
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.050

BL

Director, Dr. Blair Leftwich

4-6-99

Date

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Navajo Refining Co.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Catalyst
Project #: N/A
Project Location: N/A

Extraction Date: 03/25/99
Analysis Date: 03/25/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T121498	D-759	Non-reactive	<10	<2.5	Non-corrosive	8.0	Nonignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: SO

Director, Dr. Blair Leftwich

4-6-99
Date

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 9963241 / 13 / 14

Company Name: NAVAJO REFINING Co. Phone #: (505) 748-3311

Address: (Street, City, Zip) 501 E. MAIN ARTESIA, 88210 Fax #: (505) 748-9077

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
121498	D-759	1	1L		X			X			X	X	3/23/99	8:15
-99	HYDROCARBON CONT. SOIL	1	1L		X						X	X	3/23/99	9:00
-500	TK BTMS	1	1L				X				X	X	3/23/99	11:00

ANALYSIS REQUEST	
MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1/TX1005	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	X
TCLP Volatiles	X
TCLP Semi Volatiles	X
TCLP Pesticides	
RCI	X
GC-MS Vol. 8260B/624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082/608	
Pesticides 8081A/608	
BOD, TSS, pH	
Turn Around Time if different from standard	
Hold	

Relinquished by: Bryan Madrid Date: 3/23/99 Time: 16:15

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Date: Time:

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp °C
Log-In-Review

REMARKS: 4/6/99

244 4192 012

Carrier # Fedex 244192012

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Asphalt sample cans

ESTIMATED VOLUME: 10 drums

GENERATING PROCESS: Asphalt samples are taken on a daily basis. After an asphalt sample has been removed from the can for analysis, the contaminated can is put into a barrel until approved for disposal.

REMARKS: This waste has been OCD approved in the past and is generated on a regular basis.

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: Lea Land Incorporated

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 4/9/99

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

NEW MEXICO
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Pipeline
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site New Crouch Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) New Crouch Station P. O. Box 159, Artesia, NM 88211-0159	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Material was generated by a pipeline spill. Verbal approval given by Wayne Price with NMOCD. I am enclosing a knowledge of process letter.

05-003

Estimated Volume 600 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper Waste Management Facility Authorized Agent TITLE: Bookkeeper DATE: 5-21-99

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 6-1-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 6-3-99

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

GAR- file legal
cc: WJG
Phil Young blood
D. Griffin
CLC - Dallas

May 9, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-269-269-145

Mr. Jim G. Townsend
Manager of Transportation
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211-0159

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed Navajo Refining Company's (Navajo) February 26, 1996 correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Navajo requests that they be allowed to use these analyses and a statement of process knowledge for determining the soils to be RCRA non-hazardous during future crude oil pipeline spill remediations. These analyses are to be used in lieu of individual sampling of each spill event.

The above referenced request is approved with the following conditions:

1. The above representative analyses can be used in lieu of individual sampling of each spill event until December 31, 2000.

2. Navajo will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.

3. Navajo will notify the OCD within 24 hours of any system changes which could potentially alter the composition of any spilled crude such that RCRA hazardous waste characteristics in the spill area could be exceeded.

Please be advised that OCD approval does not relieve Navajo of liability should these types of leaks and spills result in actual contamination of surface waters, ground waters or the environment. In addition, OCD approval does not relieve Navajo of responsibility for compliance with any other federal, state or local laws and/or regulations. If you have questions please contact me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Artesia District Office
Benito Garcia, NMED Hazardous and Radioactive Waste Bureau

Hobbs, NM 88241-1980
District II - (505) 748-1283
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Baker Oil Tools**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **P. O. Box 1828 Hobbs, NM**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **CRI**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **507 W. Co. Rd.**	**Hobbs, NM**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Baker Oil Tools Hobbs Facility. The material was generated by steaming tools. This material has been approved in the past. I have included a certificate of waste and a chain of custody.

03-004

Estimated Volume **50 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **3-17-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 4-5-99

APPROVED BY: _____ TITLE: Env. Geologist DATE: 3-24-99

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs, NM 88241	8. State NM
7. Location of Material (Street Address or ULSTR) 3000 W. County Rd. Hobbs, NM	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for the Weatherford Hobbs Facility's sump sludge. This material has been approved in the past. I have included a certificate of waste and a chain of custody.

02-001

Estimated Volume 50 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 2-16-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 2-25-99

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist DATE: 2-18-99

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobb	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley, Artesia	New Mexico

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the BJ Services Artesia Facility. The material was generated by washing service equipment. I have included a certificate of waste and a chain of custody. The material has been approved in the past.

01-003

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Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 2-1-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 2-12-99

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 2-4-99

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the L G & E Natural Hobbs Plant. The waste was generated by rain caught from the plant. I have included a certificate of waste and a chain of custody. This material has been approved in the past.

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh TITLE: Manager DATE: _____
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: Jerry Williams TITLE: Environmental Eng. DATE: 2-12-99

APPROVED BY: Martyn J. Zelj TITLE: Environmental Geologist DATE: 2-4-99

District I - (505) 393-6161
P.O. Box 1980,
Hobbs, NM 88241-1980
District II - (505) 748-1283
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 2311 S. 1st St. Artesia, NM
2. Management Facility Destination Rhino Commercial Landfarm	6. Transporter Rhino
3. Address of Facility Operator 5 CR 6065, Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	2311 S. 1st St, Artesia, NM

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Sludge & Soil from the waste neutralization tank associated with the acid terminal.

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Landfarm Manager DATE: 1-22-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Daniele Berardelli TELEPHONE NO. (505) 598-9626
fax -9627

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 2-5-99

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 1-28-99

✓


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Hobbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
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000 Rio Brazos Road
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ XX	4. Generator TRANSWESTERN PIPE LINE
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site EUNICE PLANT
2. Management Facility Destination GMI, 34 MILES WEST OF TATUM	6. Transporter GANDY
3. Address of Facility Operator BOX 1658, ROSWELL	8. State NM
7. Location of Material (Street Address or ULSTR) EUNICE PLANT	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

30 YARDS OF NON EXEMPT FROM DRAIN LINE leaks

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Larry Gandy TITLE: VICE-PRESIDENT DATE: 02-22-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: LARRY GANDY TELEPHONE NO. 505-398-4960

(This space for State Use)

APPROVED BY: Donna L Williams TITLE: Environmental Eng. DATE: 3-9-99

APPROVED BY: Martyne J Kedz TITLE: Env. Geologist DATE: 3-24-99



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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator TNMPL
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site #810059
2. Management Facility Destination C & C land Farm	6. Transporter L. Ramirez Trucking
3. Address of Facility Operator 2 mile south of monument Box 55 Monument, NM 88265	8. State New mexico
7. Location of Material (Street Address or ULSTR) S6 T16S, R36E	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:
Non harardous by Knowledge of process NMOCD approved NOV 1996.

Estimated Volume 350 cy Known Volume (to be entered by the operator at the end of the haul) 382 cy

SIGNATURE: Jimmie Cooper TITLE: President DATE: 11-19-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Jimmie Cooper TELEPHONE NO. 397-2045

(This space for State Use)

APPROVED BY: Chris Williams TITLE: DISTRICT 1 SUPERVISOR DATE: 1/21/99

APPROVED BY: Madonna J. Kly TITLE: Environmental Geologist DATE: 1-25-99

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☑	4. Generator TNMPL
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site Site #7
2. Management Facility Destination C&C Landfarm	6. Transporter Six V Trucking
3. Address of Facility Operator 2 mile south of monument, NM. Box 55 Monument, NM 88265	8. State New Mexico
7. Location of Material (Street Address or ULSTR) unit p S 24 T 19S R 36E	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:
Soil contaminated with crude oil. The average TPH (8015) concentration of soil to be haul is 2214 mg/kg. Non-hazardous by knowledge of process NMOCD approved Nov 1996.

John A. Savoie (Tony) Mobile (505) 390-1246 will send ~~C-138~~ certificate waste status ag.
Received 1-22-99 mjk

Estimated Volume 4,800 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Jim Cooper TITLE: Owner DATE: 1-12-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Jim Cooper TELEPHONE NO. 392-2045

(This space for State Use)

APPROVED BY: Gary W. Wink TITLE: GARY W. WINK FIELD REPRESENTATIVE II DATE: JAN 12 1999

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 1-14-99 ✓


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Hobbs
OCD

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator ELECTRIC SUBMERSIBL
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS LOCATION
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter LUCKY
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 8426 NORTH DAL PASO HOBBS, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical results are from Electric Submersible Pump's Hobbs facility. This waste is generated by the washing off of oil field rental tools. All equipment is washed into the sump and pumped to a waste water tank outside the building in a bermed area. I have attached a certificate of waste and chain of custody. There are two different lab results. Sundance would like approval to accept this material into our Parabo facility.,

Estimated Volume 240 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach Waste Management Facility Authorized Agent TITLE: OFFICE MGR DATE: 1-18-99

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 2-5-99

APPROVED BY: [signature] TITLE: Env Geologist DATE: 1-27-99


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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS FACIL
2. Management Facility Destination SUNDANCE SERVICES INC.	6. Transporter HALLIBURTON
3. Address of Facility Operator P.O. BOX 1737 Eunice NM 88231	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 5801 LOVINGTON HWY. HOBBS NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from t Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous b listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following MSDS sheets are for Halliburton's Hobbs facility waste cement. This waste is generatred when the generator mixes up cement for an oilfield cement job and some cement is left over. It is then put into a truck for holding until disposed. I have attached a certificate of waste status and MSDS on all of the cement types used by this facility. Sundance would like approval to accept this material into our disposal.

Estimated Volume 200 tons cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna L. Roach Waste Management Facility Authorized Agent TITLE: OFFICE MGR DATE: 1-18-99

TYPE OR PRINT NAME: DONNA L. ROACH TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 2-5-99

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 1-27-99

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
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(505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Western Atlas
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Facilit
2. Management Facility Destination Sundance Services Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 1737 Eunice NM 88231	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 1718 S. Dal Paso Hobbs, Nm 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for Western Atlas Hobbs Facility. This waste is generated by the washing of trucks in the wash bay. This waste water is then collected into a wash water tank. I have included a certificate of waste status and chain of custody. The generater is in the process of running new analtyical results at the present time. It is requested to allow these out of date analytical results for an immediate approval, because of chance of overflow. Sundance Services would like to request approval to accept this material into our Parabo Facility.

Estimated Volume ~~400 bbl.s~~ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Donna Roach (Waste Management Facility Authorized Agent) TITLE: Office Manager DATE: 3-5-99

TYPE OR PRINT NAME: Donna Roach TELEPHONE NO. 505-394-2511

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 3-22-99

APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 3-15-99

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Weatherford**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Odessa Pipe Plant**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Malco**
3. Address of Facility Operator **8870 W. Loop 338 Odessa**	8. State **Texas**
7. Location of Material (Street Address or ULSTR)	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Odessa Pipe Plant. The material was generated from the hydroblasting of oilfield pipe. This material has been approved in the past. I have included a Certificate of Waste, Texas Waste Code and chain of custody.

003-001

Estimated Volume **120 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **3-3-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 3-22-99

APPROVED BY: _____ TITLE: Env. Geologist DATE: 3-15-99

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 8870 W. Loop 338 N. Odessa
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Malco & Henderso
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 8870 W. Loop 338 North Odessa, Texas	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The attached analytical is for waste water and sludge generated from washing/steam cleaning oil field tools. This material has been approved in the past. I have included a certificate of waste, chain of custody, and a Texas Waste Code.

03-003

Estimated Volume 400 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 3-9-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 3-22-99

APPROVED BY: _____ TITLE: Env Geologist DATE: 3-15-99

Hobbs, NM 88241-1980
District II - (505) 748-1283
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District III - (505) 334-6178
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Dowel Schlumberger**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Facility**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Waste Management**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **New Mexico**
7. Location of Material (Street Address or ULSTR) **1105 W. Bender**	**Hobbs, NM**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Dowell Schlumberger Hobbs facility. This material was generated by washing trucks and oilfield equipment. This material has been approved in the past and I have included a certificate of waste and a chain of custody.

03-002

Estimated Volume **20 cu. yds** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **3-3-9**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 3-22-99

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist DATE: 3-15-99

P. O. Box 1980
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District II - (505) 748-1283
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Maclaskey
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 3000 W. Co. Rd.,	Hobbs, NM 88240

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Enterra Hobbs facility. The waste soil was generated from spills and leaks from equipment and machinery. Attached are copies of the certificate of waste, analytical data and chain of custody.

02-004

Estimated Volume 5 yds. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

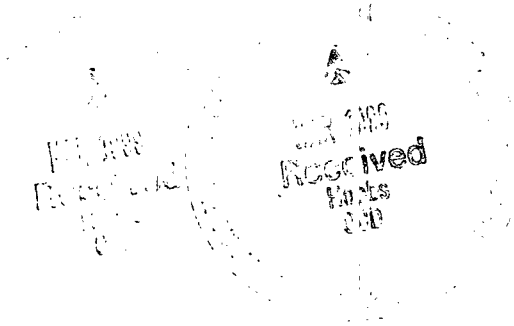
SIGNATURE: _____ TITLE: Manager DATE: 2-25-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Eng. DATE: 3-9-99

APPROVED BY: Martyne J Kelly TITLE: Env Geologist DATE: 3-1-99


Received

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Weatherford**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Odessa**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Henderson Environmental**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **1848 Mercury, Odessa, TX 79763**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Enterra- Mercury Ave., Odessa location. The waste water and sludge was generated from washing/steam cleaning oil field tools. Attached are copies of the certificate of waste, analytical data and chain of custody.

02-003

Estimated Volume **300 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

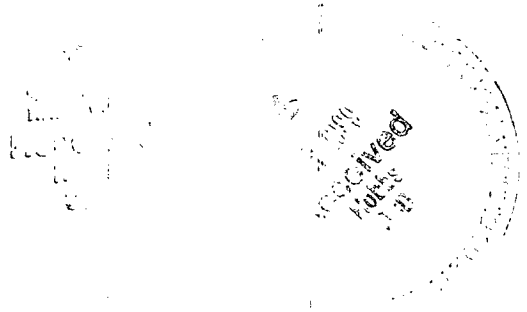
SIGNATURE: _____ TITLE: **Manager** DATE: **2-25-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: Donna L Williams TITLE: Environmental Eng DATE: 3-9-99

APPROVED BY: _____ TITLE: Env. Geologist DATE: 3-1-99



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Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Bowen Tools**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Facility**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **CRI**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **2623 Enterprise**	**Dr. Hobbs, NM**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following information is from the Bowen Tools Hobbs facility. The material was generated by sump and washing fluids. This material has been approved in the past and I have included a certificate of waste and a chain of custody.

02-002

Estimated Volume **1000 gallons** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

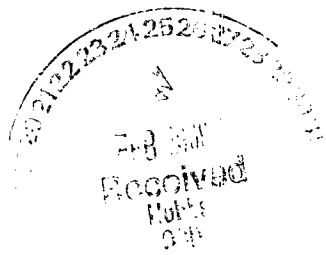
SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: **Manager** DATE: **2-16-99**

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **(505) 393-1079**

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 2-25-99

APPROVED BY: Martyne J Kieling TITLE: Env Geologist DATE: 2-23-99

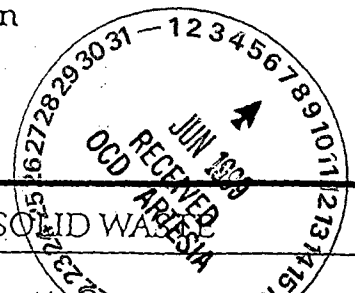

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site N. E. Carlsbad Compressor Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs,	New Mexico 88240

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural N. E. Carlsbad Compressor Station (Burton Flats). The waste was generated by rain water caught from the environmental bases on the compressor. Included also, is a Certificate of Waste, Chain of Custody and Letter from LG&E stating that the process has not changed. This material has been approved in the past.

06-002

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper Waste Management Facility Authorized Agent TITLE: Bookkeeper DATE: 6-3-99

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyn J. Zielz TITLE: Environmental Geologist DATE: 6-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG & E Natural

ADDRESS 921 Sanger, Hobbs, NM 88240

GENERATING SITE N. E. Carlsbad Compressor Station

COUNTY _____ STATE NM

TYPE OF WASTE rain water

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS generated by rain water caught from the environmental bases on the compressor.

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 Sanger

Hobbs, NM 88240

DATE 6-3-99

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1816
Hobbs, NM 88241

October 29, 1997
Receiving Date: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Berton Flats

Extraction Date: 10/21/97
Analysis Date: 10/27/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Project Name: Non-Exempt Rain/ Wash Water Tank

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T83498 Rain/Wash Water Tank	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	69	*147	31	86
1,4-Dichlorobenzene	7.5	0.05	ND	82	1	43	103
o-Cresol	200.0	0.05	ND	86	5	46	108
m,p-Cresol	200.0	0.05	ND	79	4	46	99
Hexachloroethane	3.0	0.05	ND	67	4	54	84
Nitrobenzene	2.0	0.05	ND	71	1	74	89
Hexachlorobutadiene	0.5	0.05	ND	70	2	57	88
2,4,6-Trichlorophenol	2.0	0.05	ND	90	5	43	113
2,4,5-Trichlorophenol	400.0	0.05	ND	78	0	43	98
2,4-Dinitrotoluene	0.13	0.05	ND	82	4	51	103
2,4-D	10.0	0.05	ND	75	7	18	94
Hexachlorobenzene	0.13	0.05	ND	81	0	63	101
2,4,5-TP	1.0	0.05	ND	73	13	21	91
Pentachlorophenol	100.0	0.05	ND	91	4	50	114

Surrogates	% RECOVERY
2-Fluorophenol	44
Phenol-d6	39
Nitrobenzene-d5	64
2-Fluorobiphenyl	76
2,4,6-Tribromophenol	84
Terphenyl-d14	111

ND - Not Detected

***NOTE; RPD out of limits.**

Methods: EPA SW 846-1311, 8270, 8080.
CHEMIST: RP/HW

Director, Dr. Blair Leftwich

10-29-97
DATE

TRACE ANALYSIS, INC.
A Laboratory for Advanced Environmental Research and Analysis

Barton Flats
(same as NE Carlsbad)

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1816
Hobbs, NM 88241

October 29, 1997
Receiving Data: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Berton Flats

Extraction Date: 10/16/97
Analysis Date: 10/16/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Project Name: Non-Exempt Rain/ Wash Water Tank

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T83496 Rain/Wash Water Tank	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	0.107	1	89	107
1,1-Dichloroethene	0.70	0.05	ND	0.101	2	96	101
Methyl Ethyl Ketone	200.0	0.5	ND	0.087	8	95	87
Chloroform	6.00	0.05	ND	0.102	1	100	102
1,2-Dichloroethane	0.50	0.05	ND	0.101	2	102	101
Benzene	0.50	0.05	ND	0.102	1	100	102
Carbon Tetrachloride	0.50	0.05	ND	0.119	2	100	119
Trichloroethene	0.50	0.05	ND	0.098	2	104	98
Tetrachloroethene	0.70	0.05	ND	0.100	2	106	100
Chlorobenzene	100.00	0.05	ND	0.105	1	103	105
1,4-Dichlorobenzene	7.50	0.05	ND	0.102	1	100	102

SURROGATES	% Recovery
Dibromofluoromethane	100
Toluene-d8	97
4-Bromofluorobenzene	96

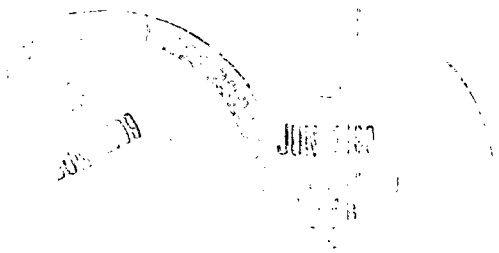
ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: RW

Director, Dr. Blair Leftwich

10-29-97
DATE

TRACE ANALYSIS, INC.
A Laboratory for Advanced Environmental Research and Analysis



TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1816
Hobbs, NM 88241

October 29, 1997
Receiving Date: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Berton Flats

Extraction Date: 10/21/97
Analysis Date: 10/21/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Proj. Name: Non-Exempt Rain/ Wash Water Tank

TCLP METALS (mg/L)

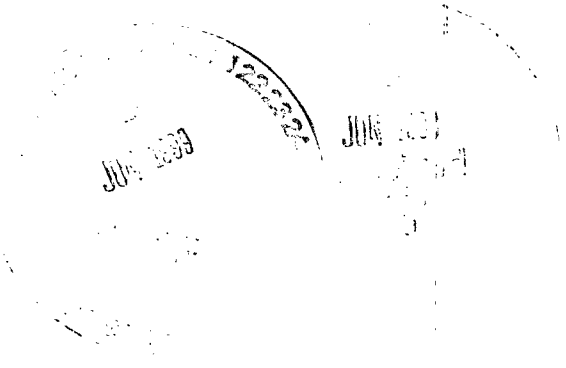
		As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T83496	Rain/Wash Water Tank	<0.10	<0.10	<0.02	<0.05	<0.10	<0.01	<0.20	<0.01
QC	Quality Control	5.1	5.0	4.9	4.9	5.0	0.98	5.1	0.0475
	Reporting Limit	0.10	0.10	0.02	0.05	0.10	0.01	0.20	0.01
	RPD	14	1	1	0	1	5	1	2
	% Extraction Accuracy	*(LCS) 85	109	96	86	97	97	109	113
	% Instrument Accuracy	102	100	98	98	99	98	102	95

***NOTE: LCS used for Extraction Accuracy due to matrix effects.**

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: HC
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.05 mg/L Hg.
TCLP METALS QC: 5.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.05 mg/L Hg.

Director, Dr. Blair Leftwich

10-29-97
Date



TRACE ANALYSIS, INC.
6701 Aberdeen Avenue Lubbock, Texas 79424 806•794•1296 FAX 806•794•1298

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1816
Hobbs, NM 88241

October 29, 1997
Receiving Date: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Berton Flats

Extraction Date: 10/27/97
Analysis Date: 10/27/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Proj. Name: Non-Exempt Rain/ Wash Water Tank

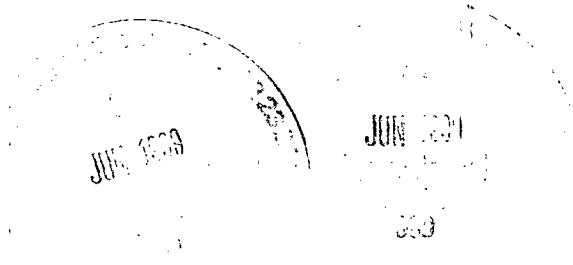
TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/yr)	pH (s.u.)	FLASHPOINT (°F)
	EPA LIMIT =	—	500	250	>6.5 mm/yr	<2 >12.5	>140°F
T83496	Rain/Wash Water Tank	Non-reactive	<10	<2.5	Non-corrosive 0.85	6.8	>150
QC	Quality Control	—	—	—	—	7.0	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		—	—	—	—	—	—
% Instrument Accuracy		—	—	—	—	100	—

METHODS: EPA SW 846-2.1.3, 2.1.2, 1010.
CHEMIST: JG

Director, Dr. Blair Leftwich

10-25-97
DATE

ID:
JAN 06'98 8:18 No.001 P.06



83496

Page ____ of ____

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 288

Company Name: (WEC) WESTERN ENVIRONMENTAL CONSULTANTS Phone #: 505-392-5021

Address: P.O. BOX 1816 Hobbs, NM 88241 Fax #: 505-392-9376

Contact Person: ALLEN Hodge / LG&E NATURAL / NE. CARLSBAD COMPRESOR STA.

Invoice to: (If different from above)

Project #: #1035 Project Name: NON-EXEMPT RAIN/WASH WATER TANK

Project Location: BERTON FLATS Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
83496	RAIN/WASH WATER TANK	2	40ml	X						X		10-16-97	3:05
		1	QT	X						X		10-16-97	3:15

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602 | BTEX 8020/602 | TPH | PAH 8270 | Total Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Volatiles | TCLP Semi Volatiles | RCI | GC/MS Vol. 8240/8260/624 | GC/MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 8080/608 | BOD, TSS, PH | Turn Around Time if different from standard | Hold

TCLP Metals Ag As Ba Cd Cr Pb Hg Se: X
TCLP Volatiles: X
TCLP Semi Volatiles: X
RCI: X

NO PCB'S
NO Herb.

	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	10-16-97	3:15 PM			
Relinquished by:			Received by:		
Relinquished by:			Received at Laboratory by:	10-16-97	3:15 PM

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 1.1 °
Log-in Review

REMARKS:

10-30

289 AQ

Carrier #

8:19 No.001 P.07 JAN 06'98 ID:


JUN 1999
JUN 1999

LG&E ENERGY MARKETING

LG&E Natural Gathering & Processing Co.
921 West Sanger
Hobbs, New Mexico 88240
505 393 2153
505-393-0381 FAX

June 1, 1999

Control Recovery
Hobbs, NM

This is to confirm that our North East Carlsbad Compressor Station, Burton Flats Compressor Station, has been and is still operating in the same mode. The process has not changed, and is still the same as it has been since the original test were performed.

If there are any questions concerning this please contact me at the letter head address and phone.

Sincerely,

Ed Sloman
Supervisor
Operations Support


JUN 1999
JUN 1999

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
JUN 7 1999
Environmental Bureau
Oil Conservation Division

Form C-
Originated

Submit Ori
Plus 1
to appro
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facil
2. Management Facility Destination Controlled Recovery, Inc	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 2401 Sivley	Artesia, NM

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the BJ Services Artesia Facility. The material was generated by washing dirt and mud off of servicing equipment. I am enclosing a Certificate of Waste Status, letter from the NMOCD extending the life of the sampling analysis, analytical and chain of custody. This material has been approved in the past.

05-006

Estimated Volume 200 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 5-25-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 6-4-99

APPROVED BY: Martyna J Kieliszek TITLE: Environmental Geologist DATE: 6-7-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ Services

ADDRESS 2401 Sivley

GENERATING SITE Artesia Facility

COUNTY Eddy STATE NM

TYPE OF WASTE Wash Rack Sludge

ESTIMATED VOLUME 200 barrels

GENERATING PROCESS Washing dirt & mud off of servicing equipment

REMARKS N/A

NMOCD FACILITY CRI

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Terry Britton
SIGNATURE

NAME Terry Britton
PRINTED

ADDRESS 2401 Sivley
Artesia N.M. 88210

DATE 5-26-99

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

March 24, 1999

CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-524

Mr. Mike Wiggins
BJ Services Company
2401 Sivley,
Artesia, NM 88210

Re: BJ Services Co.
Artesia NM, Wash Rack Sludge Waste Stream

Dear Mr. Wiggins:

The New Mexico Oil Conservation Division (OCD) has received the BJ Services Company (BJ) request to extend the life of the sampling analysis of the wash rack sludge waste stream. BJ's current wash rack sludge waste stream sample analysis **is hereby approved until June 13, 2000,** the expiration of the current Artesia facility discharge plan. If any changes or modifications are made to the Artesia BJ facility prior to this date a new waste analysis will be required prior to any waste disposal. New sample analysis on the above referenced waste stream will be required for this waste to be disposed of after June 13,2000.

Disposal of this waste stream at an OCD approved surface waste management facility (711 facility) will require the 711 facility to submit a C-138, generator certificate of waste status, a copy of the analytical report for the wash rack sludge collected on January 14,1998, and a copy of this approval letter.

Please be advised that this approval does not relieve BJ of liability should their operation result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve BJ of responsibility for compliance with other federal, state or local laws and/or regulations.

If there are any questions, please call me at (505) 827-7153.

Sincerely,

Martyne J. Kieling
Environmental Geologist

xc: Hobbs OCD Office
Artesia OCD Office

Certificate of Analysis

Quanterra Incorporated
5307 Industrial Oaks Boulevard, Suite 160
Austin, Texas 78735

512 892-6684 Direct
512 892-6652 Fax

Quanterra
Environmental Services

ANALYTICAL REPORT

ARTESIA,NM

Lot #: I8A160124

DAVID BURKETT

B.J. Services Company

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

February 6, 1998

Quanterra
Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

I8A160124

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WASH RACK SLUDGE 01/14/98 08:30 001				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	19000	760	mg/kg	MCAWW 418.1
Corrosivity	7.3	1.0	No Units	SW846 9045A
Percent Moisture	34.1	0.50	%	OCLP OLM03.1

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

I8A160124

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLP OLM03.1
Corrosivity	SW846 9045A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Total Recoverable Petroleum Hydrocarbons	MCAWW 418.1
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8240B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Quanterra
Environmental Services

SAMPLE SUMMARY

I8A160124

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIM
CEX9V	001	WASH RACK SLUDGE	01/14/98	08:

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8A160124-001 Work Order #...: CEX9V107 Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/28/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 09:52
Dilution Factor: 1
% Moisture.....: 34

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	32	(10 - 94)
Nitrobenzene-d5	69	(35 - 114)
2-Fluorobiphenyl	64	(43 - 116)
2,4,6-Tribromophenol	111	(10 - 123)
Terphenyl-d14	114	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...: I8A160124-001 Work Order #...: CEX9V108 Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 02/05/98 Analysis Date..: 02/05/98
Leach Batch #..: P802108 Prep Batch #...: 8036228 Analysis Time..: 23:05
Dilution Factor: 1
% Moisture.....: 34

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8240B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8240B
Chlorobenzene	ND	0.050	mg/L	SW846 8240B
Chloroform	ND	0.050	mg/L	SW846 8240B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8240B
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8240B
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8240B
Tetrachloroethylene	ND	0.050	mg/L	SW846 8240B
Trichloroethylene	ND	0.050	mg/L	SW846 8240B
Vinyl chloride	ND	0.10	mg/L	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(86 - 115)
1,2-Dichloroethane-d4	93	(76 - 114)
Toluene-d8	93	(88 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

General Chemistry

Lot-Sample #...: I8A160124-001 Work Order #...: CEX9V Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
% Moisture.....: 34

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	7.3	1.0	No Units	SW846 9045A	01/19/98	8020112
	Dilution Factor: 1					
	Analysis Time..: 13:00					
Flashpoint	>150	>150	deg F	SW846 1010	01/23/98	8026151
	Dilution Factor: 1					
	Analysis Time..: 00:00					
Percent Moisture	34.1	0.50	%	OCLP OLM03.1	01/20-01/21/98	8020237
	Dilution Factor: 1					
	Analysis Time..: 13:00					
Reactive Cyanide	ND	300	mg/kg	SW846 7.3.3	01/21-01/22/98	8022182
	Dilution Factor: 1					
	Analysis Time..: 11:16					
Reactive Sulfide	ND	300	mg/kg	SW846 7.3.4	01/21-01/22/98	8022189
	Dilution Factor: 1					
	Analysis Time..: 00:00					
Total Recoverable Petroleum Hydrocarbons	19000	760	mg/kg	MCAWW 418.1	01/26-01/27/98	8026164
	Dilution Factor: 50					
	Analysis Time..: 15:00					

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP Metals

Lot-Sample #...: I8A160124-001 Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Leach Batch #..: P802109

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8023178						
Silver	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V1C
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Arsenic	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V1C
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Barium	ND	20.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V1C
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Cadmium	ND	0.20	mg/L	SW846 6010A	01/23-01/26/98	CEX9V1C
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Chromium	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Lead	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Selenium	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Prep Batch #...: 8026167						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/26/98	CEX9V10
		Dilution Factor: 1				
		Analysis Time..: 15:53				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

QC DATA ASSOCIATION SUMMARY

I8A160124

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 1010		8026151	8026034
	SOLID	MCAWW 418.1		8026164	8026045
	SOLID	SW846 6010A	P802109	8023178	8023051
	SOLID	SW846 9045A		8020112	8020009
	SOLID	OCLP OLM03.1		8020237	8021086
	SOLID	SW846 7.3.3		8022182	8022046
	SOLID	SW846 7.3.4		8022189	8022048
	SOLID	SW846 8270B	P802109	8026185	8026060
	SOLID	SW846 8240B	P802108	8036228	8037030
	SOLID	SW846 7470A	P802109	8026167	8026051

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CF1H8109 Matrix.....: SOLID
MB Lot-Sample #: I8A210000-228
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 20:56
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(21 - 100)
Phenol-d5	31	(10 - 94)
Nitrobenzene-d5	71	(35 - 114)
2-Fluorobiphenyl	65	(43 - 116)
2,4,6-Tribromophenol	77	(10 - 123)
Terphenyl-d14	99	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CF814101 Matrix.....: SOLID
MB Lot-Sample #: I8B050000-228

Prep Date.....: 02/05/98 Analysis Time..: 00:07
Analysis Date..: 02/06/98 Prep Batch #...: 8036228
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8240B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8240B
Chlorobenzene	ND	0.050	mg/L	SW846 8240B
Chloroform	ND	0.050	mg/L	SW846 8240B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8240B
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8240B
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8240B
Tetrachloroethylene	ND	0.050	mg/L	SW846 8240B
Trichloroethylene	ND	0.050	mg/L	SW846 8240B
Vinyl chloride	ND	0.10	mg/L	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	106	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)
Toluene-d8	103	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I8A160124 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8A210000-228 Prep Batch #...: 8026167						
Leach Date.....: 01/21/98 Leach Batch #..: P802109						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 15:44				
MB Lot-Sample #: I8A210000-228 Prep Batch #...: 8023178						
Leach Date.....: 01/21/98 Leach Batch #..: P802109						
Silver	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Arsenic	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Barium	ND	10.0	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Cadmium	ND	0.10	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Chromium	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H8104
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Lead	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H8105
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Selenium	ND	0.25	mg/L	SW846 6010A	01/23-01/26/98	CF1H8106
		Dilution Factor: 1				
		Analysis Time..: 12:28				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Reactive Cyanide		Work Order #: CF216101		MB Lot-Sample #:	I8A220000-182	
	ND	200	mg/kg	SW846 7.3.3	01/21-01/22/98	802218
		Dilution Factor: 1				
		Analysis Time..: 11:16				
Reactive Sulfide		Work Order #: CF22G101		MB Lot-Sample #:	I8A220000-189	
	ND	200	mg/kg	SW846 7.3.4	01/21-01/22/98	802218
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH101		MB Lot-Sample #:	I8A260000-164	
	ND	10	mg/kg	MCAWW 418.1	01/26-01/27/98	802616
		Dilution Factor: 1				
		Analysis Time..: 15:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CF3FX101 Matrix.....: SOLID
LCS Lot-Sample#: I8A260000-185
Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Prep Batch #...: 8026185 Analysis Time..: 21:26
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Pyridine	0.40	0.14	mg/L	35	SW846 8270
1,4-Dichlorobenzene	0.40	0.24	mg/L	60	SW846 8270
o-Cresol	0.40	0.23	mg/L	58	SW846 8270
m-Cresol & p-Cresol	0.80	0.41	mg/L	51	SW846 8270
Hexachloroethane	0.40	0.23	mg/L	57	SW846 8270
Nitrobenzene	0.40	0.24	mg/L	61	SW846 8270
Hexachlorobutadiene	0.40	0.23	mg/L	57	SW846 8270
2,4,6-Trichlorophenol	0.40	0.26	mg/L	64	SW846 8270
2,4,5-Trichlorophenol	0.40	0.24	mg/L	60	SW846 8270
2,4-Dinitrotoluene	0.40	0.25	mg/L	62	SW846 8270
Hexachlorobenzene	0.40	0.37	mg/L	93	SW846 8270
Pentachlorophenol	0.40	0.37	mg/L	93	SW846 8270

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	27	(10 - 94)
Nitrobenzene-d5	60	(35 - 114)
2-Fluorobiphenyl	55	(43 - 116)
2,4,6-Tribromophenol	72	(10 - 123)
Terphenyl-d14	102	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CF3FX101 Matrix.....: SOLID
LCS Lot-Sample#: I8A260000-185
Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Prep Batch #...: 8026185 Analysis Time..: 21:26
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Pyridine	35	(1.0- 144)	SW846 8270B
1,4-Dichlorobenzene	60	(26 - 112)	SW846 8270B
o-Cresol	58	(21 - 137)	SW846 8270B
m-Cresol & p-Cresol	51	(19 - 126)	SW846 8270B
Hexachloroethane	57	(26 - 102)	SW846 8270B
Nitrobenzene	61	(42 - 120)	SW846 8270B
Hexachlorobutadiene	57	(33 - 111)	SW846 8270B
2,4,6-Trichlorophenol	64	(19 - 122)	SW846 8270B
2,4,5-Trichlorophenol	60	(29 - 123)	SW846 8270B
2,4-Dinitrotoluene	62	(31 - 106)	SW846 8270B
Hexachlorobenzene	93	(42 - 120)	SW846 8270B
Pentachlorophenol	93	(12 - 156)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	27	(10 - 94)
Nitrobenzene-d5	60	(35 - 114)
2-Fluorobiphenyl	55	(43 - 116)
2,4,6-Tribromophenol	72	(10 - 123)
Terphenyl-d14	102	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CF814102 Matrix.....: SOLID
LCS Lot-Sample#: I8B050000-228
Prep Date.....: 02/05/98 Analysis Date..: 02/05/98
Prep Batch #...: 8036228 Analysis Time..: 23:36
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	0.50	0.47	mg/L	94	SW846 8240B
1,1-Dichloroethylene	0.50	0.53	mg/L	106	SW846 8240B
Chloroform	0.50	0.51	mg/L	103	SW846 8240B
1,2-Dichloroethane	0.50	0.52	mg/L	105	SW846 8240B
Methyl ethyl ketone	0.50	0.41	mg/L	82	SW846 8240B
Carbon tetrachloride	0.50	0.49	mg/L	98	SW846 8240B
Trichloroethylene	0.50	0.52	mg/L	103	SW846 8240B
Benzene	0.50	0.52	mg/L	104	SW846 8240B
Tetrachloroethylene	0.50	0.53	mg/L	105	SW846 8240B
Chlorobenzene	0.50	0.53	mg/L	107	SW846 8240B
1,4-Dichlorobenzene	0.50	0.52	mg/L	105	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(86 - 115)
1,2-Dichloroethane-d4	97	(76 - 114)
Toluene-d8	100	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CF814102 Matrix.....: SOLID
LCS Lot-Sample#: I8B050000-228
Prep Date.....: 02/05/98 Analysis Date..: 02/05/98
Prep Batch #...: 8036228 Analysis Time..: 23:36
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	94	(1.0- 251)	SW846 8240B
1,1-Dichloroethylene	106	(59 - 155)	SW846 8240B
Chloroform	103	(51 - 136)	SW846 8240B
1,2-Dichloroethane	105	(49 - 155)	SW846 8240B
Methyl ethyl ketone	82	(25 - 250)	SW846 8240B
Carbon tetrachloride	98	(71 - 240)	SW846 8240B
Trichloroethylene	103	(71 - 157)	SW846 8240B
Benzene	104	(37 - 151)	SW846 8240B
Tetrachloroethylene	105	(46 - 157)	SW846 8240B
Chlorobenzene	107	(37 - 160)	SW846 8240B
1,4-Dichlorobenzene	105	(75 - 137)	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(86 - 115)
1,2-Dichloroethane-d4	97	(76 - 114)
Toluene-d8	100	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8A230000-178 **Prep Batch #...:** 8023178							
Arsenic	2.0	2.1	mg/L	106	SW846 6010A	01/23-01/26/98	CF2HC101
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Barium	2.0	2.1	mg/L	105	SW846 6010A	01/23-01/26/98	CF2HC102
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Cadmium	0.050	0.050	mg/L	101	SW846 6010A	01/23-01/26/98	CF2HC103
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Chromium	0.20	0.21	mg/L	104	SW846 6010A	01/23-01/26/98	CF2HC104
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Lead	0.50	0.51	mg/L	102	SW846 6010A	01/23-01/26/98	CF2HC105
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Selenium	2.0	2.1	mg/L	105	SW846 6010A	01/23-01/26/98	CF2HC106
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Silver	0.050	0.046	mg/L	93	SW846 6010A	01/23-01/26/98	CF2HC107
		Dilution Factor: 1					
		Analysis Time..: 12:30					
LCS Lot-Sample#: I8A260000-167 **Prep Batch #...:** 8026167							
Mercury	0.0050	0.0053	mg/L	105	SW846 7470A	01/26/98	CF3F0101
		Dilution Factor: 1					
		Analysis Time..: 15:46					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8A230000-178 **Prep Batch #...:** 8023178					
Arsenic	106	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC101
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Barium	105	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC102
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Cadmium	101	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC103
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Chromium	104	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC104
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Lead	102	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC105
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Selenium	105	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC106
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Silver	93	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC107
		Dilution Factor: 1			
		Analysis Time..: 12:30			
LCS Lot-Sample#: I8A260000-167 **Prep Batch #...:** 8026167					
Mercury	105	(80 - 120)	SW846 7470A	01/26/98	CF3F0101
		Dilution Factor: 1			
		Analysis Time..: 15:46			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint		Work Order #: CF3CV101 LCS Lot-Sample#: I8A260000-151					
	81	80	deg F	98	SW846 1010	01/23-01/26/98	8026151
		Dilution Factor: 1					
		Analysis Time..: 14:00					
Reactive Cyanide		Work Order #: CF216102 LCS Lot-Sample#: I8A220000-182					
	40	0.19 N	mg/kg	0.46	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1					
		Analysis Time..: 11:16					
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH102 LCS Lot-Sample#: I8A260000-164					
	250	240	mg/kg	96	MCAWW 418.1	01/26-01/27/98	8026164
		Dilution Factor: 1					
		Analysis Time..: 15:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint		Work Order #: CF3CV101	LCS Lot-Sample#: I8A260000-151		
	98	(95 - 105)	SW846 1010	01/23-01/26/98	8026151
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Reactive Cyanide		Work Order #: CF216102	LCS Lot-Sample#: I8A220000-182		
	0.46 N	(1.0- 64)	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1			
		Analysis Time..: 11:16			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH102	LCS Lot-Sample#: I8A260000-164		
	96	(70 - 130)	MCAWW 418.1	01/26-01/27/98	8026164
		Dilution Factor: 1			
		Analysis Time..: 15:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID
Date Sampled...: 01/14/98 10:10 **Date Received..:** 01/15/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: I8A160124-001 **Prep Batch #...:** 8023178									
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109									
Silver									
	ND	1.0	0.98	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	1.0	0.96	mg/L	95	1.8	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Arsenic									
	ND	5.0	5.1	mg/L	102		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	5.0	5.0	mg/L	100	2.4	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Barium									
	ND	50.0	49.3	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	50.0	48.7	mg/L	96	1.1	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Cadmium									
	ND	1.0	0.99	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	1.0	0.98	mg/L	97	0.80	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Chromium									
	ND	5.0	4.9	mg/L	98		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	5.0	4.9	mg/L	98	0.78	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Lead									
	ND	5.0	4.9	mg/L	98		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	5.0	4.9	mg/L	99	0.95	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Selenium									
	ND	1.0	0.96	mg/L	96		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	1.0	0.93	mg/L	93	2.9	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						

MS Lot-Sample #: I8A160124-001 **Prep Batch #...:** 8026167
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109

(Continued on next page)

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8A160124 Matrix.....: SOLID
Date Sampled...: 01/14/98 10:10 Date Received..: 01/15/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Mercury									
	ND	0.001	0.0010	mg/L	90		SW846 7470A	01/26/98	CEX9V1
	ND	0.001	0.0010	mg/L	89	1.0	SW846 7470A	01/26/98	CEX9V1

Dilution Factor: 1
Analysis Time..: 15:55

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8A160124 Matrix.....: SOLID
Date Sampled...: 01/14/98 10:10 Date Received..: 01/15/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8A160124-001 Prep Batch #...: 8023178							
Leach Date.....: 01/21/98 Leach Batch #..: P802109							
Silver	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V114
	95	(80 - 120)	1.8	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V115
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Arsenic	102	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10P
	100	(80 - 120)	2.4	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10Q
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Barium	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10R
	96	(80 - 120)	1.1	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10T
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Cadmium	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10U
	97	(80 - 120)	0.80	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10V
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Chromium	98	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10W
	98	(80 - 120)	0.78	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10X
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Lead	98	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V110
	99	(80 - 120)	0.95	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V111
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Selenium	96	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V112
	93	(80 - 120)	2.9	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V113
		Dilution Factor: 2					
		Analysis Time..: 12:37					
MS Lot-Sample #: I8A160124-001 Prep Batch #...: 8026167							
Leach Date.....: 01/21/98 Leach Batch #..: P802109							
Mercury	90	(75 - 125)			SW846 7470A	01/26/98	CEX9V119
	89	(75 - 125)	1.0	(0-20)	SW846 7470A	01/26/98	CEX9V11A
		Dilution Factor: 1					
		Analysis Time..: 15:55					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CEX9V11C-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11D-MSD
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 22:26
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	ND	0.40	0.28	mg/L	71		SW846 8270B
	ND	0.40	0.29	mg/L	72	1.9	SW846 8270B
m-Cresol & p-Cresol	ND	0.80	0.51	mg/L	64		SW846 8270B
	ND	0.80	0.54	mg/L	67	4.9	SW846 8270B
1,4-Dichlorobenzene	ND	0.40	0.28	mg/L	70		SW846 8270B
	ND	0.40	0.28	mg/L	71	0.93	SW846 8270B
2,4-Dinitrotoluene	ND	0.40	0.35	mg/L	87		SW846 8270B
	ND	0.40	0.33	mg/L	82	5.8	SW846 8270B
Hexachlorobenzene	ND	0.40	0.37	mg/L	92		SW846 8270B
	ND	0.40	0.35	mg/L	86	6.5	SW846 8270B
Hexachlorobutadiene	ND	0.40	0.29	mg/L	72		SW846 8270B
	ND	0.40	0.30	mg/L	74	3.1	SW846 8270B
Hexachloroethane	ND	0.40	0.28	mg/L	69		SW846 8270B
	ND	0.40	0.28	mg/L	70	1.3	SW846 8270B
Nitrobenzene	ND	0.40	0.32	mg/L	79		SW846 8270B
	ND	0.40	0.32	mg/L	80	0.80	SW846 8270B
Pentachlorophenol	ND	0.40	0.43	mg/L	107		SW846 8270B
	ND	0.40	0.41	mg/L	102	4.4	SW846 8270B
Pyridine	ND	0.40	0.19	mg/L	48		SW846 8270B
	ND	0.40	0.20	mg/L	49	2.6	SW846 8270B
2,4,5-Trichlorophenol	ND	0.40	0.39	mg/L	97		SW846 8270B
	ND	0.40	0.36	mg/L	90	7.3	SW846 8270B
2,4,6-Trichlorophenol	ND	0.40	0.36	mg/L	90		SW846 8270B
	ND	0.40	0.34	mg/L	86	4.3	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(21 - 100)
	46	(21 - 100)
Phenol-d5	34	(10 - 94)
	34	(10 - 94)
Nitrobenzene-d5	78	(35 - 114)
	79	(35 - 114)
2-Fluorobiphenyl	73	(43 - 116)
	74	(43 - 116)
2,4,6-Tribromophenol	102	(10 - 123)
	95	(10 - 123)
Terphenyl-d14	101	(33 - 141)
	99	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CEX9V11C-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11D-MSD
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 22:26
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	71	(21 - 137)			SW846 8270B
	72	(21 - 137)	1.9	(0-70)	SW846 8270B
m-Cresol & p-Cresol	64	(19 - 126)			SW846 8270B
	67	(19 - 126)	4.9	(0-94)	SW846 8270B
1,4-Dichlorobenzene	70	(26 - 112)			SW846 8270B
	71	(26 - 112)	0.93	(0-40)	SW846 8270B
2,4-Dinitrotoluene	87	(31 - 106)			SW846 8270B
	82	(31 - 106)	5.8	(0-55)	SW846 8270B
Hexachlorobenzene	92	(42 - 120)			SW846 8270B
	86	(42 - 120)	6.5	(0-39)	SW846 8270B
Hexachlorobutadiene	72	(33 - 111)			SW846 8270B
	74	(33 - 111)	3.1	(0-40)	SW846 8270B
Hexachloroethane	69	(26 - 102)			SW846 8270B
	70	(26 - 102)	1.3	(0-44)	SW846 8270B
Nitrobenzene	79	(42 - 120)			SW846 8270B
	80	(42 - 120)	0.80	(0-40)	SW846 8270B
Pentachlorophenol	107	(12 - 156)			SW846 8270B
	102	(12 - 156)	4.4	(0-76)	SW846 8270B
Pyridine	48	(1.0- 144)			SW846 8270B
	49	(1.0- 144)	2.6	(0-95)	SW846 8270B
2,4,5-Trichlorophenol	97	(29 - 123)			SW846 8270B
	90	(29 - 123)	7.3	(0-63)	SW846 8270B
2,4,6-Trichlorophenol	90	(19 - 122)			SW846 8270B
	86	(19 - 122)	4.3	(0-64)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(21 - 100)
	46	(21 - 100)
Phenol-d5	34	(10 - 94)
	34	(10 - 94)
Nitrobenzene-d5	78	(35 - 114)
	79	(35 - 114)
2-Fluorobiphenyl	73	(43 - 116)
	74	(43 - 116)
2,4,6-Tribromophenol	102	(10 - 123)
	95	(10 - 123)
Terphenyl-d14	101	(33 - 141)
	99	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CEX9V11E-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11F-MSD
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 02/05/98 Analysis Date..: 02/06/98
Leach Batch #..: P802108 Prep Batch #...: 8036228 Analysis Time..: 00:39
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	ND	0.50	0.51	mg/L	101		SW846 8240B
	ND	0.50	0.50	mg/L	99	2.4	SW846 8240B
Carbon tetrachloride	ND	0.50	0.45	mg/L	91		SW846 8240B
	ND	0.50	0.45	mg/L	89	1.8	SW846 8240B
Chlorobenzene	ND	0.50	0.51	mg/L	102		SW846 8240B
	ND	0.50	0.51	mg/L	101	0.05	SW846 8240B
Chloroform	ND	0.50	0.49	mg/L	97		SW846 8240B
	ND	0.50	0.48	mg/L	96	1.0	SW846 8240B
1,2-Dichloroethane	ND	0.50	0.53	mg/L	106		SW846 8240B
	ND	0.50	0.53	mg/L	105	0.18	SW846 8240B
1,1-Dichloroethylene	ND	0.50	0.43	mg/L	85		SW846 8240B
	ND	0.50	0.42	mg/L	84	1.5	SW846 8240B
Methyl ethyl ketone	ND	0.50	0.50	mg/L	99		SW846 8240B
	ND	0.50	0.47	mg/L	93	5.9	SW846 8240B
Tetrachloroethylene	ND	0.50	0.51	mg/L	102		SW846 8240B
	ND	0.50	0.49	mg/L	99	3.2	SW846 8240B
Trichloroethylene	ND	0.50	0.49	mg/L	99		SW846 8240B
	ND	0.50	0.48	mg/L	96	3.2	SW846 8240B
Vinyl chloride	ND	0.50	0.51	mg/L	103		SW846 8240B
	ND	0.50	0.49	mg/L	97	5.4	SW846 8240B
1,4-Dichlorobenzene	ND	0.50	0.51	mg/L	101		SW846 8240B
	ND	0.50	0.49	mg/L	98	3.1	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(86 - 115)
	101	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)
	101	(76 - 114)
Toluene-d8	94	(88 - 110)
	97	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CEX9V11E-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11F-MSD
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 02/05/98 Analysis Date..: 02/06/98
Leach Batch #..: P802108 Prep Batch #...: 8036228 Analysis Time..: 00:39
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	101	(37 - 151)			SW846 8240B
	99	(37 - 151)	2.4	(0-30)	SW846 8240B
Carbon tetrachloride	91	(71 - 240)			SW846 8240B
	89	(71 - 240)	1.8	(0-30)	SW846 8240B
Chlorobenzene	102	(37 - 160)			SW846 8240B
	101	(37 - 160)	0.05	(0-30)	SW846 8240B
Chloroform	97	(51 - 136)			SW846 8240B
	96	(51 - 136)	1.0	(0-30)	SW846 8240B
1,2-Dichloroethane	106	(49 - 155)			SW846 8240B
	105	(49 - 155)	0.18	(0-30)	SW846 8240B
1,1-Dichloroethylene	85	(59 - 155)			SW846 8240B
	84	(59 - 155)	1.5	(0-30)	SW846 8240B
Methyl ethyl ketone	99	(25 - 250)			SW846 8240B
	93	(25 - 250)	5.9	(0-30)	SW846 8240B
Tetrachloroethylene	102	(46 - 157)			SW846 8240B
	99	(46 - 157)	3.2	(0-30)	SW846 8240B
Trichloroethylene	99	(71 - 157)			SW846 8240B
	96	(71 - 157)	3.2	(0-30)	SW846 8240B
Vinyl chloride	103	(1.0- 251)			SW846 8240B
	97	(1.0- 251)	5.4	(0-30)	SW846 8240B
1,4-Dichlorobenzene	101	(75 - 137)			SW846 8240B
	98	(75 - 137)	3.1	(0-30)	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(86 - 115)
	101	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)
	101	(76 - 114)
Toluene-d8	94	(88 - 110)
	97	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8A160124 Matrix.....: SOLID
Date Sampled...: 01/14/98 10:10 Date Received..: 01/15/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Reactive Cyanide			WO#: CEX9V10K-MS/CEX9V10L-MSD		MS Lot-Sample #: I8A160124-001				
	ND	61	8.0	mg/kg	12		SW846 7.3.3	01/21-01/22/98	802218
	ND	61	7.9	mg/kg	11	2.2	SW846 7.3.3	01/21-01/22/98	802218
			Dilution Factor: 1						
			Analysis Time..: 11:16						
Total Recoverable Petroleum Hydrocarbons			WO#: CEX9V117-MS/CEX9V118-MSD		MS Lot-Sample #: I8A160124-001				
	19000	380	17000 NC	mg/kg			MCAWW 418.1	01/26-01/27/98	802616
	19000	380	15000 NC	mg/kg			MCAWW 418.1	01/26-01/27/98	802616
			Dilution Factor: 1						
			Analysis Time..: 15:00						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 Matrix.....: SOLID
Date Sampled...: 01/14/98 10:10 Date Received..: 01/15/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CEX9V10K-MS/CEX9V10L-MSD				MS Lot-Sample #: I8A160124-001	
	12	(1.0 - 64)			SW846 7.3.3	01/21-01/22/98	8022182
	11	(1.0 - 64)	2.2	(0-213)	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1					
		Analysis Time..: 11:16					
Total Recoverable Petroleum Hydrocarbons		WO#: CEX9V117-MS/CEX9V118-MSD				MS Lot-Sample #: I8A160124-001	
	NC	(70 - 130)			MCAWW 418.1	01/26-01/27/98	8026164
	NC	(70 - 130)		(0-30)	MCAWW 418.1	01/26-01/27/98	8026164
		Dilution Factor: 1					
		Analysis Time..: 15:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 Work Order #...: CEWL7-SMP CEWL7-DUP Matrix.....: SOLID

Date Sampled...: 01/14/98 10:10 Date Received..: 01/15/98

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATC
Percent Moisture						SD Lot-Sample #:	I8A150110-020	
	14.8	15.4	%	4.0	(0-14)	OCLP OLM03.1	01/20-01/21/98	8020

Dilution Factor: 1
Analysis Time..: 00:00

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 Work Order #...: CEX9V-SMP Matrix.....: SOLID
CEX9V-DUP
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
% Moisture.....: 34

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATC
Reactive Cyanide						SD Lot-Sample #:	I8A160124-001	
	ND	0.13	mg/kg	154	(0-213)	SW846 7.3.3	01/21-01/22/98	8022
		Dilution Factor: 1						
		Analysis Time..: 11:16						
Reactive Sulfide						SD Lot-Sample #:	I8A160124-001	
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	01/21-01/22/98	8022
		Dilution Factor: 1						
		Analysis Time..: 00:00						
Flashpoint						SD Lot-Sample #:	I8A160124-001	
	>150	>150	deg F	0.0	(0-20)	SW846 1010	01/23/98/22/98	8026
		Dilution Factor: 1						
		Analysis Time..: 00:00						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

Chain of Custody Record

Quanterra

CHAIN OF CUSTODY NUMBER
0007708-001

QUA-4149 (1097)

Client	Project Manager	Date
B.J.SERVICES	DAVID BURKETT	12/16/1997
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
2401 SIVLEY	(505) 746-9247 / (281) 363-7528	QUANTERRA - AUSTIN
City / State / Zip Code	**Site Contact**	
ARTESIA / NM / 88210	MIKE WIGGINS	
Project Number/Name	**Carrier/Waybill Number**	
ARTESIA,NM	Airborne 9136181154	

Contract/Purchase Order/Quote Number
CONTRACT / PURCHASE ORDER # : ARTESIA,NM QUOTE: 22015

Page 1 of 1

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: TMOISTURE	TRPHASE	CNICAT	SULFATE	TSS	MS 3183	MS 8021	MS 8015	MS 8270	COR TOC
~~WASH RACK SLUDGE~~	1-14-98	8:30a	~~SOLID~~	~~1000mL~~	~~CLEAR GL~~	1	~~None~~	11°C 1/16 ice OK	X	X	X	X	X	X	X	X	X	X

Special Instructions
INCLUDE COC, LABELED BOTTLES, BLUE ICE, RETURN SHIPPING, CUSTODY SEALS
1 SAMPLE - WASH RACK SLUDGE

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ Normal ☐ Rush ☐ Other _____

QC Level
☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12-16-97	1800	1. Received By		
2. Relinquished By	1-14-98	0835	2. Received By	1/16/98	0924
3. Relinquished By			3. Received By		

Comments

WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
Originated 8

Submit Or
Plus 1
to appro
District (

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Sevices
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 369 Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley Artesia	New Mexico

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the BJ Services Artesia yard. The material was generated by washing dirt and mud off of Service Equipment. I have included a certificate of waste and a chain of custody.

02-021

Estimated Volume 120 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Billie Charo TITLE: Environmental Compliance Manager DATE: 02/23/98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

BJ

To: Billie Charo

From: Mike Wiggins

Date: February 9, 1998

Re: Wash Rack Sludge

This memo is to request CRI to pick up and properly dispose of our wash rack sludge. This waste is generated from washing dirt and mud off of our equipment.

Please find the enclosed Certificate of Waste Status and the analytical report.

Should you have any questions or require more information, please call me at (505) 746-3140

cc: EPA file

BJ Services Company, U.S.A. • 2401 Sivley, Artesia, NM 88210
Office: (505) 746-3140 • Fax: (505) 746-2293

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR BJ Services Company

ADDRESS 2401 Sidley Artesia NM 88210

GENERATING SITE Wash Bay Sump

COUNTY Eddy STATE NM

TYPE OF WASTE Wash Rack Sludge

ESTIMATED VOLUME 120 BBl

GENERATING PROCESS Washing Dirt and Mud off Of Service Equipment.

REMARKS

NMOCD FACILITY CONTROLLED RECOVERY INC.

TRUCKING COMPANY

As a condition of acceptance for disposal, I hearby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 2613.

AGENT Mike Wiggins
SIGNATURE

NAME Mike Wiggins
PRINTED

ADDRESS 2401 Sidley
Artesia NM 88210

DATE February 9, 1998

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
Originated

Submit O
Plus 1
to appro
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Sevices
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter
3. Address of Facility Operator P.O. Box 369 Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley Artesia	New Mexico

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the BJ Services Artesia yard. The material was generated by washing dirt and mud off of Service Equipment. I have included a certificate of waste and a chain of custody.

02-021

Estimated Volume 120 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Billie Charo Waste Management Facility Authorized Agent TITLE: Environmental Compliance Manager DATE: 02/23/98

TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
APR 07 1998
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator B J Services
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter C R I
3. Address of Facility Operator P.O. Box 369 Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Scviey Artesia	New Mexico

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste fr Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical anal PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazard listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for the B J Services Artesia facility. The waste was generated by mud falling off of trucks onto shop floor and washed into drain. I have included a certificate of waste and a chain of custody.

APR 1998 Received Hobbs OCD

APR 1998 Received Hobbs OCD

03-017

Estimated Volume 120 bbls cy Known Volume (to be entered by the operator at the end of the haul)

SIGNATURE: [signature] TITLE: Environmental Compliance Manager DATE: 03/30/
Waste Management Facility/Authorized Agent

TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: [signature] TITLE: ENVR FMGR DATE: 4-6-

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C
Originated

Submit
Plus
to app
Distric

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator B J Services
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter C R I
3. Address of Facility Operator P.O. Box 369 Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sevley Artesia	New Mexico

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from th Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis t PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous b listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for the B J Services Artesia facility. The waste was generated by mud falling off of trucks onto shop floor and washed into drain. I have included a certificate of waste and a chain of custody.

03-017

Estimated Volume 120 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Billie Charo TITLE: Environmental Compliance Manager DATE: 03/30/98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS
NON-EMEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ Services Co, USA

ADDRESS 2401 Sivley, Artesia, NM 88210

GENERATING SITE _____

COUNTY Eddy STATE NM

TYPE OF WASTE Shop drain sludge

ESTIMATED VOLUME 120 bbl

GENERATING PROCESS Mud falling off of trucks onto shop floor and washed into drain.

REMARKS _____

NMOCD FACILITY _____

TRUCKING COMPANY CRI

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Michael Wiggins
PRINTED

ADDRESS 2401 Sivley

Artesia, NM 88210

DATE 3-19-98

To: CRI

From: Mike Wiggins

Date: March 13, 1998

Re: Shop Drain Sludge

Please find the enclosed lab results from samples taken in the BJ Services, Artesia district shop drain.

Please make arrangements to come suck out our shop drain.

Thank you for your assistance on this matter. Should you have any questions, please call

Mike Wiggins
District Manager
BJ Services Company
2401 Sivley
Artesia, NM 88210
(505) 746-3140

Certificate of Analysis

Quanterra Incorporated
5307 Industrial Oaks Boulevard, Suite 160
Austin, Texas 78735

512 892-6684 Direct
512 892-6652 Fax

Quanterra Environmental Services

ANALYTICAL REPORT

ARTESIA,NM

Lot #: I8B110118

DAVID BURKETT

B.J. Services Company

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

March 2, 1998

Quanterra
Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

I8B110118

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SHOP DRAIN SLUDGE 02/08/98 14:00 001				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	200000	7200	mg/kg	MCAWW 418.1
Corrosivity	7.0	1.0	No Units	SW846 9045A
Percent Moisture	93.0	0.50	%	OCLP OLM03.1

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

I8B110118

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLP OLM03.1
Corrosivity	SW846 9045A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Total Recoverable Petroleum Hydrocarbons	MCAWW 418.1
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8240B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Quanterra
Environmental
Services

SAMPLE SUMMARY

I8B110118

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CF9W3	001	SHOP DRAIN SLUDGE	02/08/98	14:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: SHOP DRAIN SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B110118-001 Work Order #...: CF9W3107 Matrix.....: SOLID
Date Sampled...: 02/08/98 14:00 Date Received..: 02/10/98
Leach Date.....: 02/13/98 Prep Date.....: 02/17/98 Analysis Date..: 02/24/98
Leach Batch #..: P804701 Prep Batch #...: 8048208 Analysis Time..: 19:47
Dilution Factor: 1
% Moisture.....: 93

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(21 - 100)
Phenol-d5	86	(10 - 94)
Nitrobenzene-d5	87	(35 - 114)
2-Fluorobiphenyl	66	(43 - 116)
2,4,6-Tribromophenol	123	(10 - 123)
Terphenyl-d14	111	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: SHOP DRAIN SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...:	I8B110118-001	Work Order #...:	CF9W3108	Matrix.....:	SOLID
Date Sampled...:	02/08/98 14:00	Date Received..:	02/10/98		
Leach Date.....:	02/13/98	Prep Date.....:	02/18/98	Analysis Date..:	02/18/98
Leach Batch #..:	P803504	Prep Batch #...:	8051263	Analysis Time..:	19:16
Dilution Factor:	1				
% Moisture.....:	93				

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8240B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8240B
Chlorobenzene	ND	0.050	mg/L	SW846 8240B
Chloroform	ND	0.050	mg/L	SW846 8240B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8240B
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8240B
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8240B
Tetrachloroethylene	ND	0.050	mg/L	SW846 8240B
Trichloroethylene	ND	0.050	mg/L	SW846 8240B
Vinyl chloride	ND	0.10	mg/L	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	97	(86 - 115)
1,2-Dichloroethane-d4	97	(76 - 114)
Toluene-d8	100	(88 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: SHOP DRAIN SLUDGE

General Chemistry

Lot-Sample #...: I8B110118-001 Work Order #...: CF9W3 Matrix.....: SOLID
Date Sampled...: 02/08/98 14:00 Date Received..: 02/10/98
% Moisture.....: 93

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	7.0	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	93.0	0.50	%	OCLP OLM03.1	02/13-02/16/98	8044206
		Dilution Factor: 1				
		Analysis Time..: 17:00				
Reactive Cyanide	ND	2900	mg/kg	SW846 7.3.3	02/13-02/17/98	8044160
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	2900	mg/kg	SW846 7.3.4	02/13/98	8044161
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Total Recoverable Petroleum Hydrocarbons	200000	7200	mg/kg	MCAWW 418.1	02/12-02/16/98	8043185
		Dilution Factor: 50				
		Analysis Time..: 10:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B.J. SERVICES COMPANY

Client Sample ID: SHOP DRAIN SLUDGE

TCLP Metals

Lot-Sample #...: I8B110118-001 Matrix.....: SOLID
Date Sampled...: 02/08/98 14:00 Date Received..: 02/10/98
Leach Date.....: 02/13/98 Leach Batch #..: P804701

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 8047212						
Silver	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 14:49				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 14:49				
Barium	ND	10.0	mg/L	SW846 6010A	02/14-02/18/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 14:49				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/14-02/18/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 14:49				
Chromium	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 14:49				
Lead	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 14:49				
Selenium	ND	0.25	mg/L	SW846 6010A	02/14-02/18/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 14:49				
Prep Batch #...: 8051212						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CF9W31
		Dilution Factor: 1				
		Analysis Time..: 08:37				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

QC DATA ASSOCIATION SUMMARY

I8B110118

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8043185	8043079
	SOLID	SW846 6010A	P804701	8047212	8047090
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8044206	8044082
	SOLID	SW846 7.3.3		8044160	8044042
	SOLID	SW846 7.3.4		8044161	8044043
	SOLID	SW846 8270B	P804701	8048208	8048081
	SOLID	SW846 8240B	P803504	8051263	8051124
	SOLID	SW846 7470A	P804701	8051212	8051081

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B110118 Work Order #...: CFDN1109 Matrix.....: SOLID
MB Lot-Sample #: I8B160000-204
Leach Date.....: 02/13/98 Prep Date.....: 02/17/98 Analysis Date..: 02/24/98
Leach Batch #..: P804701 Prep Batch #...: 8048208 Analysis Time..: 18:46
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(21 - 100)
Phenol-d5	91	(10 - 94)
Nitrobenzene-d5	89	(35 - 114)
2-Fluorobiphenyl	78	(43 - 116)
2,4,6-Tribromophenol	109	(10 - 123)
Terphenyl-d14	127	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8B110118 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		Work Order #: CFCGJ101		MB Lot-Sample #:	I8B130000-160	
	ND	200	mg/kg	SW846 7.3.3	02/13-02/17/98	8044160
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide		Work Order #: CFCGK101		MB Lot-Sample #:	I8B130000-161	
	ND	200	mg/kg	SW846 7.3.4	02/13/98	8044161
		Dilution Factor: 1				
		Analysis Time..: 15:00				
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFAPG101		MB Lot-Sample #:	I8B120000-185	
	ND	10	mg/kg	MCAWW 418.1	02/12-02/16/98	8043185
		Dilution Factor: 1				
		Analysis Time..: 10:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I8B110118 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8B160000-204 Prep Batch #...: 8051212						
Leach Date.....: 02/13/98 Leach Batch #..: P804701						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDN1107
		Dilution Factor: 1				
		Analysis Time..: 08:33				
MB Lot-Sample #: I8B160000-204 Prep Batch #...: 8047212						
Leach Date.....: 02/13/98 Leach Batch #..: P804701						
Silver	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CFDN1108
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CFDN1101
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Barium	ND	10.0	mg/L	SW846 6010A	02/14-02/18/98	CFDN1102
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/14-02/18/98	CFDN1103
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Chromium	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CFDN1104
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Lead	ND	0.50	mg/L	SW846 6010A	02/14-02/18/98	CFDN1105
		Dilution Factor: 1				
		Analysis Time..: 14:44				
Selenium	ND	0.25	mg/L	SW846 6010A	02/14-02/18/98	CFDN1106
		Dilution Factor: 1				
		Analysis Time..: 14:44				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: I8B110118 Work Order #...: CFE2C101 Matrix.....: SOLID
LCS Lot-Sample#: I8B170000-208
Prep Date.....: 02/17/98 Analysis Date..: 02/24/98
Prep Batch #...: 8048208 Analysis Time..: 19:17
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Pyridine	0.40	0.27	mg/L	68	SW846 8270B
1,4-Dichlorobenzene	0.40	0.27	mg/L	68	SW846 8270B
o-Cresol	0.40	0.33	mg/L	82	SW846 8270B
m-Cresol & p-Cresol	0.80	0.78	mg/L	98	SW846 8270B
Hexachloroethane	0.40	0.24	mg/L	60	SW846 8270B
Nitrobenzene	0.40	0.37	mg/L	92	SW846 8270B
Hexachlorobutadiene	0.40	0.33	mg/L	82	SW846 8270B
2,4,6-Trichlorophenol	0.40	0.33	mg/L	82	SW846 8270B
2,4,5-Trichlorophenol	0.40	0.33	mg/L	82	SW846 8270B
2,4-Dinitrotoluene	0.40	0.34	mg/L	85	SW846 8270B
Hexachlorobenzene	0.40	0.42	mg/L	104	SW846 8270B
Pentachlorophenol	0.40	0.35	mg/L	87	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	91	(35 - 114)
2-Fluorobiphenyl	74	(43 - 116)
2,4,6-Tribromophenol	113	(10 - 123)
Terphenyl-d14	122	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: I8B110118 Work Order #...: CFGDF102 Matrix.....: SOLID
LCS Lot-Sample#: I8B200000-263
Prep Date.....: 02/18/98 Analysis Date..: 02/18/98
Prep Batch #...: 8051263 Analysis Time..: 13:35
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	0.50	0.61	mg/L	122	SW846 8240B
1,1-Dichloroethylene	0.50	0.52	mg/L	103	SW846 8240B
Chloroform	0.50	0.49	mg/L	98	SW846 8240B
1,2-Dichloroethane	0.50	0.52	mg/L	104	SW846 8240B
Methyl ethyl ketone	0.50	0.39	mg/L	78	SW846 8240B
Carbon tetrachloride	0.50	0.41	mg/L	83	SW846 8240B
Trichloroethylene	0.50	0.47	mg/L	95	SW846 8240B
Benzene	0.50	0.48	mg/L	95	SW846 8240B
Tetrachloroethylene	0.50	0.49	mg/L	98	SW846 8240B
Chlorobenzene	0.50	0.49	mg/L	98	SW846 8240B
1,4-Dichlorobenzene	0.50	0.45	mg/L	91	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(86 - 115)
1,2-Dichloroethane-d4	102	(76 - 114)
Toluene-d8	98	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B110118 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity			Work Order #: CFDLG101 LCS Lot-Sample#: I8B160000-188				
	9.0	9.2	No Units	101	SW846 9045A	02/16/98	8047188
			Dilution Factor: 1				
			Analysis Time..: 14:00				
Flashpoint			Work Order #: CFDMP101 LCS Lot-Sample#: I8B160000-152				
	81	81	deg F	100	SW846 1010	02/15-02/16/98	8047152
			Dilution Factor: 1				
			Analysis Time..: 10:00				
Reactive Cyanide			Work Order #: CFCGJ102 LCS Lot-Sample#: I8B130000-160				
	40	1.6	mg/kg	3.9	SW846 7.3.3	02/13-02/17/98	8044160
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFAPG102 LCS Lot-Sample#: I8B120000-185				
	250	180	mg/kg	74	MCAWW 418.1	02/12-02/16/98	8043185
			Dilution Factor: 1				
			Analysis Time..: 10:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B110118 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B160000-212 Prep Batch #...: 8047212							
Arsenic	2.0	2.0	mg/L	100	SW846 6010A	02/14-02/18/98	CFDN6101
			Dilution Factor: 1				
			Analysis Time..: 14:46				
Barium	2.0	2.0	mg/L	101	SW846 6010A	02/14-02/18/98	CFDN6102
			Dilution Factor: 1				
			Analysis Time..: 14:46				
Cadmium	0.050	0.056	mg/L	112	SW846 6010A	02/14-02/18/98	CFDN6103
			Dilution Factor: 1				
			Analysis Time..: 14:46				
Chromium	0.20	0.20	mg/L	98	SW846 6010A	02/14-02/18/98	CFDN6104
			Dilution Factor: 1				
			Analysis Time..: 14:46				
Lead	0.50	0.51	mg/L	102	SW846 6010A	02/14-02/18/98	CFDN6105
			Dilution Factor: 1				
			Analysis Time..: 14:46				
Selenium	2.0	2.0	mg/L	101	SW846 6010A	02/14-02/18/98	CFDN6106
			Dilution Factor: 1				
			Analysis Time..: 14:46				
Silver	0.050	0.040	mg/L	81	SW846 6010A	02/14-02/18/98	CFDN6107
			Dilution Factor: 1				
			Analysis Time..: 14:46				
LCS Lot-Sample#: I8B200000-212 Prep Batch #...: 8051212							
Mercury	0.0050	0.0047	mg/L	94	SW846 7470A	02/20-02/24/98	CFG88101
			Dilution Factor: 1				
			Analysis Time..: 08:35				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #....: I8B110118 Work Order #...: CFE2C101 Matrix.....: SOLID
LCS Lot-Sample#: I8B170000-208
Prep Date.....: 02/17/98 Analysis Date...: 02/24/98
Prep Batch #...: 8048208 Analysis Time...: 19:17
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Pyridine	68	(1.0- 144)	SW846 8270B
1,4-Dichlorobenzene	68	(26 - 112)	SW846 8270B
o-Cresol	82	(21 - 137)	SW846 8270B
m-Cresol & p-Cresol	98	(19 - 126)	SW846 8270B
Hexachloroethane	60	(26 - 102)	SW846 8270B
Nitrobenzene	92	(42 - 120)	SW846 8270B
Hexachlorobutadiene	82	(33 - 111)	SW846 8270B
2,4,6-Trichlorophenol	82	(19 - 122)	SW846 8270B
2,4,5-Trichlorophenol	82	(29 - 123)	SW846 8270B
2,4-Dinitrotoluene	85	(31 - 106)	SW846 8270B
Hexachlorobenzene	104	(42 - 120)	SW846 8270B
Pentachlorophenol	87	(12 - 156)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	91	(35 - 114)
2-Fluorobiphenyl	74	(43 - 116)
2,4,6-Tribromophenol	113	(10 - 123)
Terphenyl-d14	122	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I8B110118 Work Order #...: CFGDF102 Matrix.....: SOLID
LCS Lot-Sample#: I8B200000-263
Prep Date.....: 02/18/98 Analysis Date..: 02/18/98
Prep Batch #...: 8051263 Analysis Time..: 13:35
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	122	(1.0- 251)	SW846 8240B
1,1-Dichloroethylene	103	(59 - 155)	SW846 8240B
Chloroform	98	(51 - 136)	SW846 8240B
1,2-Dichloroethane	104	(49 - 155)	SW846 8240B
Methyl ethyl ketone	78	(25 - 250)	SW846 8240B
Carbon tetrachloride	83	(71 - 240)	SW846 8240B
Trichloroethylene	95	(71 - 157)	SW846 8240B
Benzene	95	(37 - 151)	SW846 8240B
Tetrachloroethylene	98	(46 - 157)	SW846 8240B
Chlorobenzene	98	(37 - 160)	SW846 8240B
1,4-Dichlorobenzene	91	(75 - 137)	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(86 - 115)
1,2-Dichloroethane-d4	102	(76 - 114)
Toluene-d8	98	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B110118 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity		Work Order #: CFDLG101	LCS Lot-Sample#: I8B160000-188		
	101	(90 - 110)	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Flashpoint		Work Order #: CFDMP101	LCS Lot-Sample#: I8B160000-152		
	100	(95 - 105)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1			
		Analysis Time..: 10:00			
Reactive Cyanide		Work Order #: CFCGJ102	LCS Lot-Sample#: I8B130000-160		
	3.9	(1.0- 64)	SW846 7.3.3	02/13-02/17/98	8044160
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFAPG102	LCS Lot-Sample#: I8B120000-185		
	74	(70 - 130)	MCAWW 418.1	02/12-02/16/98	8043185
		Dilution Factor: 1			
		Analysis Time..: 10:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B110118 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B160000-212 Prep Batch #...: 8047212					
Arsenic	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:46	02/14-02/18/98	CFDN6101
Barium	101	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:46	02/14-02/18/98	CFDN6102
Cadmium	112	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:46	02/14-02/18/98	CFDN6103
Chromium	98	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:46	02/14-02/18/98	CFDN6104
Lead	102	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:46	02/14-02/18/98	CFDN6105
Selenium	101	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:46	02/14-02/18/98	CFDN6106
Silver	81	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:46	02/14-02/18/98	CFDN6107
LCS Lot-Sample#: I8B200000-212 Prep Batch #...: 8051212					
Mercury	94	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 08:35	02/20-02/24/98	CFG88101

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...: I8B110118 Work Order #...: CF6FF117-MS Matrix.....: SOLID
MS Lot-Sample #: I8B030109-001 CF6FF118-MSD
Date Sampled...: 02/02/98 00:00 Date Received..: 02/03/98
Leach Date.....: 02/13/98 Prep Date.....: 02/18/98 Analysis Date..: 02/18/98
Leach Batch #..: P803504 Prep Batch #...: 8051263 Analysis Time..: 17:45
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Vinyl chloride	ND	0.50	0.60	mg/L	119		SW846 8240B
	ND	0.50	0.62	mg/L	125	4.4	SW846 8240B
1,1-Dichloroethylene	ND	0.50	0.52	mg/L	104		SW846 8240B
	ND	0.50	0.54	mg/L	108	3.4	SW846 8240B
Chloroform	ND	0.50	0.50	mg/L	101		SW846 8240B
	ND	0.50	0.51	mg/L	103	1.7	SW846 8240B
1,2-Dichloroethane	ND	0.50	0.52	mg/L	104		SW846 8240B
	ND	0.50	0.53	mg/L	106	2.3	SW846 8240B
Methyl ethyl ketone	ND	0.50	0.34	mg/L	67		SW846 8240B
	ND	0.50	0.41	mg/L	82	20	SW846 8240B
Carbon tetrachloride	ND	0.50	0.41	mg/L	82		SW846 8240B
	ND	0.50	0.43	mg/L	87	6.1	SW846 8240B
Trichloroethylene	ND	0.50	0.46	mg/L	93		SW846 8240B
	ND	0.50	0.50	mg/L	99	6.6	SW846 8240B
Benzene	ND	0.50	0.48	mg/L	93		SW846 8240B
	ND	0.50	0.51	mg/L	100	7.0	SW846 8240B
Tetrachloroethylene	ND	0.50	0.49	mg/L	97		SW846 8240B
	ND	0.50	0.53	mg/L	107	9.4	SW846 8240B
Chlorobenzene	ND	0.50	0.49	mg/L	98		SW846 8240B
	ND	0.50	0.51	mg/L	103	5.0	SW846 8240B
1,4-Dichlorobenzene	ND	0.50	0.46	mg/L	91		SW846 8240B
	ND	0.50	0.49	mg/L	98	7.7	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(86 - 115)
	93	(86 - 115)
1,2-Dichloroethane-d4	104	(76 - 114)
	101	(76 - 114)
Toluene-d8	99	(88 - 110)
	98	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B110118 Matrix.....: SOLID
Date Sampled...: 02/03/98 13:00 Date Received..: 02/04/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: I8B110118-001 Prep Batch #...: 8047212									
Leach Date.....: 02/13/98 Leach Batch #..: P804701									
Silver									
	ND	1.0	0.98	mg/L	98		SW846 6010A	02/14-02/18/98	CF9W31
	ND	1.0	0.95	mg/L	95	2.8	SW846 6010A	02/14-02/18/98	CF9W31
			Dilution Factor: 1						
			Analysis Time..: 14:59						
Arsenic									
	ND	5.0	5.0	mg/L	101		SW846 6010A	02/14-02/18/98	CF9W31
	ND	5.0	4.9	mg/L	98	3.0	SW846 6010A	02/14-02/18/98	CF9W31
			Dilution Factor: 1						
			Analysis Time..: 14:59						
Barium									
	ND	50.0	53.0	mg/L	102		SW846 6010A	02/14-02/18/98	CF9W31
	ND	50.0	51.0	mg/L	98	3.9	SW846 6010A	02/14-02/18/98	CF9W31
			Dilution Factor: 1						
			Analysis Time..: 14:59						
Cadmium									
	ND	1.0	0.97	mg/L	97		SW846 6010A	02/14-02/18/98	CF9W31
	ND	1.0	0.94	mg/L	94	3.3	SW846 6010A	02/14-02/18/98	CF9W31
			Dilution Factor: 1						
			Analysis Time..: 14:59						
Chromium									
	ND	5.0	4.8	mg/L	96		SW846 6010A	02/14-02/18/98	CF9W31
	ND	5.0	4.6	mg/L	93	3.9	SW846 6010A	02/14-02/18/98	CF9W31
			Dilution Factor: 1						
			Analysis Time..: 14:59						
Lead									
	ND	5.0	4.9	mg/L	98		SW846 6010A	02/14-02/18/98	CF9W31
	ND	5.0	4.7	mg/L	94	4.1	SW846 6010A	02/14-02/18/98	CF9W31
			Dilution Factor: 1						
			Analysis Time..: 14:59						
Selenium									
	ND	1.0	0.98	mg/L	98		SW846 6010A	02/14-02/18/98	CF9W31
	ND	1.0	0.95	mg/L	95	2.9	SW846 6010A	02/14-02/18/98	CF9W31
			Dilution Factor: 1						
			Analysis Time..: 14:59						

MS Lot-Sample #: I8B110118-001 Prep Batch #...: 8051212
Leach Date.....: 02/13/98 Leach Batch #..: P804701
(Continued on next page)

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Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B110118 Matrix.....: SOLID
Date Sampled...: 02/03/98 13:00 Date Received..: 02/04/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	0.001	0.00080	mg/L	80		SW846 7470A	02/20-02/24/98	CF9W3118
	ND	0.001	0.00097	mg/L	97	20	SW846 7470A	02/20-02/24/98	CF9W3119

Dilution Factor: 1
Analysis Time..: 08:40

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #....: I8B110118 Work Order #...: CF9W3116-MS Matrix.....: SOLID
MS Lot-Sample #: I8B110118-001 CF9W3117-MSD
Date Sampled...: 02/08/98 14:00 Date Received..: 02/10/98
Leach Date.....: 02/13/98 Prep Date.....: 02/17/98 Analysis Date..: 02/27/98
Leach Batch #..: P804701 Prep Batch #...: 8048208 Analysis Time..: 09:36
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	ND	0.40	0.32	mg/L	80		SW846 8270B
	ND	0.40	0.27	mg/L	67	18	SW846 8270B
m-Cresol & p-Cresol	ND	0.80	0.77	mg/L	93		SW846 8270B
	ND	0.80	0.62	mg/L	74	22	SW846 8270B
1,4-Dichlorobenzene	ND	0.40	0.24	mg/L	59		SW846 8270B
	ND	0.40	0.17	mg/L	43	30	SW846 8270B
2,4-Dinitrotoluene	ND	0.40	0.28	mg/L	70		SW846 8270B
	ND	0.40	0.23	mg/L	58	19	SW846 8270B
Hexachlorobenzene	ND	0.40	0.30	mg/L	74		SW846 8270B
	ND	0.40	0.21	mg/L	53	33	SW846 8270B
Hexachlorobutadiene	ND	0.40	0.25	mg/L	61		SW846 8270B
	ND	0.40	0.19	mg/L	48	25	SW846 8270B
Hexachloroethane	ND	0.40	0.27	mg/L	66		SW846 8270B
	ND	0.40	0.20	mg/L	51	27	SW846 8270B
Nitrobenzene	ND	0.40	0.27	mg/L	68		SW846 8270B
	ND	0.40	0.23	mg/L	57	18	SW846 8270B
Pentachlorophenol	ND	0.40	0.34	mg/L	86		SW846 8270B
	ND	0.40	0.23	mg/L	57	39	SW846 8270B
Pyridine	ND	0.40	0.29	mg/L	74		SW846 8270B
	ND	0.40	0.25	mg/L	62	17	SW846 8270B
2,4,5-Trichlorophenol	ND	0.40	0.36	mg/L	91		SW846 8270B
	ND	0.40	0.24	mg/L	59	42	SW846 8270B
2,4,6-Trichlorophenol	ND	0.40	0.29	mg/L	73		SW846 8270B
	ND	0.40	0.20	mg/L	50	38	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	60	(21 - 100)
Phenol-d5	83	(10 - 94)
	71	(10 - 94)
Nitrobenzene-d5	64	(35 - 114)
	56	(35 - 114)
2-Fluorobiphenyl	74	(43 - 116)
	47	(43 - 116)
2,4,6-Tribromophenol	98	(10 - 123)
	70	(10 - 123)
Terphenyl-d14	81	(33 - 141)
	59	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B110118 Matrix.....: SOLID
Date Sampled...: 02/03/98 13:00 Date Received..: 02/04/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Reactive Cyanide			WO#: CF9W310K-MS/CF9W310L-MSD			MS Lot-Sample #: I8B110118-001				
	ND	570	49		mg/kg	8.6		SW846 7.3.3	02/13-02/17/98	80441
	ND	570	49		mg/kg	8.6	0.32	SW846 7.3.3	02/13-02/17/98	80441
			Dilution Factor: 1							
			Analysis Time..: 16:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CF6XV112-MS/CF6XV113-MSD			MS Lot-Sample #: I8B040112-001				
	1200	250	1400	NC	mg/kg			MCAWW 418.1	02/12-02/16/98	80431
	1200	250	1300	NC	mg/kg			MCAWW 418.1	02/12-02/16/98	80431
			Dilution Factor: 1							
			Analysis Time..: 10:00							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: I8B110118 Work Order #...: CF6FF117-MS Matrix.....: SOLID
MS Lot-Sample #: I8B030109-001 CF6FF118-MSD
Date Sampled...: 02/02/98 00:00 Date Received..: 02/03/98
Leach Date.....: 02/13/98 Prep Date.....: 02/18/98 Analysis Date..: 02/18/98
Leach Batch #..: P803504 Prep Batch #...: 8051263 Analysis Time..: 17:45
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	119	(1.0- 251)			SW846 8240B
	125	(1.0- 251)	4.4	(0-30)	SW846 8240B
1,1-Dichloroethylene	104	(59 - 155)			SW846 8240B
	108	(59 - 155)	3.4	(0-30)	SW846 8240B
Chloroform	101	(51 - 136)			SW846 8240B
	103	(51 - 136)	1.7	(0-30)	SW846 8240B
1,2-Dichloroethane	104	(49 - 155)			SW846 8240B
	106	(49 - 155)	2.3	(0-30)	SW846 8240B
Methyl ethyl ketone	67	(25 - 250)			SW846 8240B
	82	(25 - 250)	20	(0-30)	SW846 8240B
Carbon tetrachloride	82	(71 - 240)			SW846 8240B
	87	(71 - 240)	6.1	(0-30)	SW846 8240B
Trichloroethylene	93	(71 - 157)			SW846 8240B
	99	(71 - 157)	6.6	(0-30)	SW846 8240B
Benzene	93	(37 - 151)			SW846 8240B
	100	(37 - 151)	7.0	(0-30)	SW846 8240B
Tetrachloroethylene	97	(46 - 157)			SW846 8240B
	107	(46 - 157)	9.4	(0-30)	SW846 8240B
Chlorobenzene	98	(37 - 160)			SW846 8240B
	103	(37 - 160)	5.0	(0-30)	SW846 8240B
1,4-Dichlorobenzene	91	(75 - 137)			SW846 8240B
	98	(75 - 137)	7.7	(0-30)	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(86 - 115)
	93	(86 - 115)
1,2-Dichloroethane-d4	104	(76 - 114)
	101	(76 - 114)
Toluene-d8	99	(88 - 110)
	98	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B110118 Matrix.....: SOLID
Date Sampled...: 02/03/98 13:00 Date Received..: 02/04/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8B110118-001 Prep Batch #...: 8047212							
Leach Date.....: 02/13/98 Leach Batch #..: P804701							
Silver	98	(80 - 120)			SW846 6010A	02/14-02/18/98	CF9W3114
	95	(80 - 120)	2.8	(0-20)	SW846 6010A	02/14-02/18/98	CF9W3115
		Dilution Factor: 1					
		Analysis Time..: 14:59					
Arsenic	101	(80 - 120)			SW846 6010A	02/14-02/18/98	CF9W310P
	98	(80 - 120)	3.0	(0-20)	SW846 6010A	02/14-02/18/98	CF9W310Q
		Dilution Factor: 1					
		Analysis Time..: 14:59					
Barium	102	(80 - 120)			SW846 6010A	02/14-02/18/98	CF9W310R
	98	(80 - 120)	3.9	(0-20)	SW846 6010A	02/14-02/18/98	CF9W310T
		Dilution Factor: 1					
		Analysis Time..: 14:59					
Cadmium	97	(80 - 120)			SW846 6010A	02/14-02/18/98	CF9W310U
	94	(80 - 120)	3.3	(0-20)	SW846 6010A	02/14-02/18/98	CF9W310V
		Dilution Factor: 1					
		Analysis Time..: 14:59					
Chromium	96	(80 - 120)			SW846 6010A	02/14-02/18/98	CF9W310W
	93	(80 - 120)	3.9	(0-20)	SW846 6010A	02/14-02/18/98	CF9W310X
		Dilution Factor: 1					
		Analysis Time..: 14:59					
Lead	98	(80 - 120)			SW846 6010A	02/14-02/18/98	CF9W3110
	94	(80 - 120)	4.1	(0-20)	SW846 6010A	02/14-02/18/98	CF9W3111
		Dilution Factor: 1					
		Analysis Time..: 14:59					
Selenium	98	(80 - 120)			SW846 6010A	02/14-02/18/98	CF9W3112
	95	(80 - 120)	2.9	(0-20)	SW846 6010A	02/14-02/18/98	CF9W3113
		Dilution Factor: 1					
		Analysis Time..: 14:59					
MS Lot-Sample #: I8B110118-001 Prep Batch #...: 8051212							
Leach Date.....: 02/13/98 Leach Batch #..: P804701							
Mercury	80	(75 - 125)			SW846 7470A	02/20-02/24/98	CF9W3118
	97	(75 - 125)	20	(0-20)	SW846 7470A	02/20-02/24/98	CF9W3119
		Dilution Factor: 1					
		Analysis Time..: 08:40					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B110118 Work Order #...: CF9W3116-MS Matrix.....: SOLID
MS Lot-Sample #: I8B110118-001 CF9W3117-MSD
Date Sampled...: 02/08/98 14:00 Date Received..: 02/10/98
Leach Date.....: 02/13/98 Prep Date.....: 02/17/98 Analysis Date..: 02/27/98
Leach Batch #..: P804701 Prep Batch #...: 8048208 Analysis Time..: 09:36
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	80	(21 - 137)			SW846 8270B
	67	(21 - 137)	18	(0-70)	SW846 8270B
m-Cresol & p-Cresol	93	(19 - 126)			SW846 8270B
	74	(19 - 126)	22	(0-94)	SW846 8270B
1,4-Dichlorobenzene	59	(26 - 112)			SW846 8270B
	43	(26 - 112)	30	(0-40)	SW846 8270B
2,4-Dinitrotoluene	70	(31 - 106)			SW846 8270B
	58	(31 - 106)	19	(0-55)	SW846 8270B
Hexachlorobenzene	74	(42 - 120)			SW846 8270B
	53	(42 - 120)	33	(0-39)	SW846 8270B
Hexachlorobutadiene	61	(33 - 111)			SW846 8270B
	48	(33 - 111)	25	(0-40)	SW846 8270B
Hexachloroethane	66	(26 - 102)			SW846 8270B
	51	(26 - 102)	27	(0-44)	SW846 8270B
Nitrobenzene	68	(42 - 120)			SW846 8270B
	57	(42 - 120)	18	(0-40)	SW846 8270B
Pentachlorophenol	86	(12 - 156)			SW846 8270B
	57	(12 - 156)	39	(0-76)	SW846 8270B
Pyridine	74	(1.0- 144)			SW846 8270B
	62	(1.0- 144)	17	(0-95)	SW846 8270B
2,4,5-Trichlorophenol	91	(29 - 123)			SW846 8270B
	59	(29 - 123)	42	(0-63)	SW846 8270B
2,4,6-Trichlorophenol	73	(19 - 122)			SW846 8270B
	50	(19 - 122)	38	(0-64)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	60	(21 - 100)
Phenol-d5	83	(10 - 94)
	71	(10 - 94)
Nitrobenzene-d5	64	(35 - 114)
	56	(35 - 114)
2-Fluorobiphenyl	74	(43 - 116)
	47	(43 - 116)
2,4,6-Tribromophenol	98	(10 - 123)
	70	(10 - 123)
Terphenyl-d14	81	(33 - 141)
	59	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B110118 Matrix.....: SOLID
Date Sampled...: 02/03/98 13:00 Date Received..: 02/04/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CF9W310K-MS/CF9W310L-MSD				MS Lot-Sample #: I8B110118-001	
	8.6	(1.0 - 64)			SW846 7.3.3	02/13-02/17/98	8044160
	8.6	(1.0 - 64)	0.32	(0-213)	SW846 7.3.3	02/13-02/17/98	8044160
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CF6XV112-MS/CF6XV113-MSD				MS Lot-Sample #: I8B040112-001	
	NC	(70 - 130)			MCAWW 418.1	02/12-02/16/98	8043185
	NC	(70 - 130)		(0-30)	MCAWW 418.1	02/12-02/16/98	8043185
		Dilution Factor: 1					
		Analysis Time..: 10:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B110118 Work Order #...: CFA6C-SMP Matrix.....: SOLID
CFA6C-DUP
Date Sampled...: 02/10/98 11:30 Date Received..: 02/10/98
% Moisture.....: 30

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Percent Moisture						SD Lot-Sample #: I8B110159-001		
	30.0	30.6	%	2.0	(0-14)	OCLP OLM03.1	02/13-02/16/98	804420

Dilution Factor: 1
Analysis Time..: 00:00

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B110118 Work Order #...: CFD2Q-SMP Matrix.....: SOLID
CFD2Q-DUP
Date Sampled...: 02/13/98 09:00 Date Received..: 02/13/98
% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Flashpoint						SD Lot-Sample #:	I8B140105-001	
	>150	>150	deg F	0.0	(0-20)	SW846 1010	02/15-02/16/98	804715
		Dilution Factor: 1						
		Analysis Time..: 00:00						
Corrosivity						SD Lot-Sample #:	I8B140105-001	
	6.5	6.4	No Units	0.62	(0-20)	SW846 9045A	02/16/98/16/98	804718
		Dilution Factor: 1						
		Analysis Time..: 00:00						

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B110118 Work Order #...: CF9W3-SMP CF9W3-DUP Matrix.....: SOLID

Date Sampled...: 02/08/98 14:00 Date Received..: 02/10/98

% Moisture.....: 93

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #: I8B110118-001		
	ND	ND	mg/kg	0	(0-213)	SW846 7.3.3	02/13-02/17/98	8044160
			Dilution Factor: 1					
			Analysis Time..: 16:00					
Reactive Sulfide						SD Lot-Sample #: I8B110118-001		
	ND	ND	mg/kg	200	(0-20)	SW846 7.3.4	02/13/98/17/98	8044161
			Dilution Factor: 1					
			Analysis Time..: 00:00					

Chain of Custody Record

Quanterra

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 0 8 - 0 0 1 *

QUA-4149 (1097)

Client	Project Manager	Date	Page 1 of 1
B.J.SERVICES	DAVID BURKETT	01/27/1998	
Address 2401 SIVLEY	**Telephone Number (Area Code)/Fax Number** (505) 746-9247 / (281) 363-7528	**Lab Location** QUANTERRA - AUSTIN	
City ARTESIA	**State** NM	**Zip Code** 88210	**Site Contact** MIKE WIGGINS
Project Number/Name ARTESIA,NM	**Carrier/Waybill Number** AB 319186537.5		
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : ARTESIA,NM		QUOTE: 22015	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: TMRNULSSHHHC / TOPHERSSSSSOR / IHERSAHHHHTR / SIAECA;;;;;;; / TRCATCSTTTTTS / 3 T P P / 1 S S	
SHOP DRAIN SLUDGE	2-8-98	PM	SOLID	1000ML	CLEAR GL	5	NONE	6005.8°C JM 2-10-98	X X X X X X X X X X	

Special Instructions INCLUDE COC, LABELED BOTTLES, BLUE ICE,RETURN SHIPPING, CUSTODY SEALS
1 SAMPLE - WASH RACK SLUDGE

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ Normal ☐ Rush ☒ Other _____

QC Level
☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	1/27/98	1800	1. Received By		
2. Relinquished By	2-8-98	3PM	2. Received By	2-10-98	0930
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ ROGER ANDERSON 6-1-99 3:15PM Verbal Approval Received: Yes ☒ No ☐	4. Generator LG&E Natural
	5. Originating Site NE CARLSBAD COMPRESSOR STA.
2. Management Facility Destination CONTROLLED RECOVERY INC	6. Transporter KEY
3. Address of Facility Operator PO BOX 388, HOBBS NM	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs, NM	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

06-001 Waste was generated by rain water caught from the environmental bases on Compressor. Materia has been approved in the past. Knowledge of process letter included. Verbal approval (emergency) Roger Anderson 6-1-99 3:15PM

Estimated Volume 100+ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kathy Harper Waste Management Facility Authorized Agent TITLE: Bookkeeper DATE: 6-1-99 3:15PM

TYPE OR PRINT NAME: Kathy Harper for Ken Marsh TELEPHONE NO. 505-393-1079

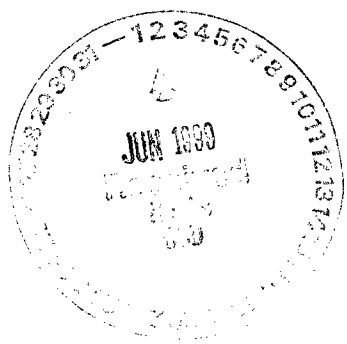
(This space for State Use)

APPROVED BY: Verbal Roger Anderson TITLE: _____ DATE: 6-1-99 3:15PM

APPROVED BY: Martyne J Kelly TITLE: Environmental Geologist DATE: 6-3-99

Gave verbal approval to Ken to accept same waste on an emergency basis. Rain causing pumps to overflow. L&E to seal cut. That waste limit changed

RA



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 Sanger Hobbs, NM 88240

GENERATING SITE N.E. Carlsbad Compressor Station

COUNTY _____ STATE NM

TYPE OF WASTE Waste Generated Rain Water Caught from env. bases on Compressors

ESTIMATED VOLUME 200

GENERATING PROCESS Generated by rain water caught from the environmental bases on Compressor.

REMARKS Verbal approval Roger Anderson NMOCD 6-1-99 3:15PM

NMOCD FACILITY Controller Recovery, Inc.

TRUCKING COMPANY Key

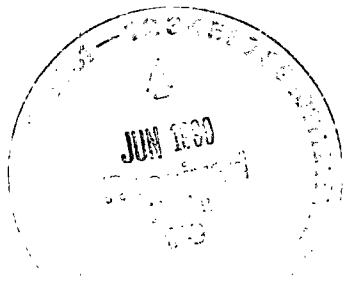
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 92 Sanger
Hobbs, NM 88240

DATE 6-1-99


JUN 1989

LG&E ENERGY MARKETING

June 1, 1999

LG&E Natural Gathering & Processing Co.
921 West Sanger
Hobbs, New Mexico 88240
505 393 2153
505-393-0381 FAX

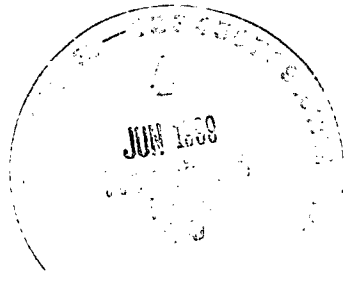
Control Recovery
Hobbs, NM

This is to confirm that our North East Carlsbad Compressor Station, Burton Flats Compressor Station, has been and is still operating in the same mode. The process has not changed, and is still the same as it has been since the original test were performed.

If there are any questions concerning this please contact me at the letter head address and phone.

Sincerely,

Ed Sloman
Supervisor
Operations Support


JUN 1988

Controlled Recovery, Inc.
P.O. Box 388 Hobbs, NM 88241
Phone: (505)393-1079 Fax: (505)393-3615

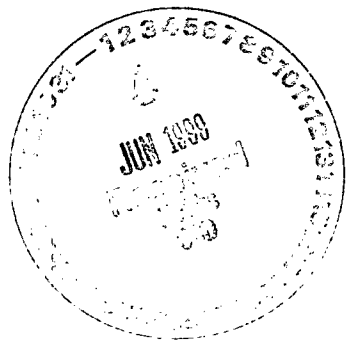
CRI

Fax

To:	ROGER ANDERSON	**From:**	KEN MARSH
Fax:	(505) 827-1389	**Pages:**	2, including cover
Phone:		**Date:**	6-01-99
Re:	LG&E, N.E. CARLSBAD COMPRESSOR STATION, (SAME AS: BURTON FLATS COMPRESSOR STATION)	**CC:**	

☐ **Urgent** X **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

- **Comments:** IF YOU HAVE ANY QUESTIONS, PLEASE CALL.


JUN 1990

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/

Submit Orig
Plus 1 C
to appropr
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator Mashburn Realty & Investments(forme M & S Services) 5. Originating Site
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Henderson Environmental
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 8801 W. County	Rd. Odessa, TX 79762

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The wash water and sludge was generated by the steam cleaning of oil field tools, by Mashburn Realty & Investments (formerly M & S Service, an oil field service co.) I am enclosing analytical, certificate of waste, chain of custody and Texas Waste Codes. Also, is a letter of explanation from Llano Permian

05-005

Estimated Volume 477 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper Waste Management Facility Authorized Agent TITLE: Bookkeeper DATE: 5-26-99

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 6-1-99

APPROVED BY: Martyne J. Kurley TITLE: Environmental Geologist DATE: 6-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Mr. Charles Mashburn/Mashburn Reality and Investments

ADDRESS PO Box 536, Childress, Texas 79201

GENERATING SITE 8801 West County Rd, Odessa, TX 79762

COUNTY Ector STATE TX

TYPE OF WASTE Waste water and sludge

ESTIMATED VOLUME 477 bbls. (20000 gallons)

GENERATING PROCESS Steam cleaning of oil field tools.

REMARKS

NMOCD FACILITY **CONTROLLED RECOVERY INC.**

TRUCKING COMPANY Henderson Environmental (806) 744-6278

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous, I further certify that to my Knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40CFR, Section 2613.

AGENT Melinda Beggs
SIGNATURE

NAME Melinda Beggs
PRINTED

ADDRESS 1031 Andrews Hwy., Ste 207B
Midland, Texas 79701

DATE May 26, 1999

Amarillo:
4104 West 33rd Street
Amarillo, Texas 79109
(806) 467-0607
Fax (806) 467-0622

LP Environmental
Llano -Permian Environmental

Midland:
1031 Andrews Highway, Suite 115
Midland, Texas 79701
(915) 522-2133
Fax (915) 522-2180

May 26, 1999

Mr. Ken Marsh
Controlled Recovery Inc.
P.O. Box 369
Hobbs, New Mexico 88241

RE: Waste Disposal Approval Request

Llano Permian Environmental Services requests approval to dispose of 477 bbl (20000 gallons) of waste water and sludge generated by Mashburn Reality and Investments. Mashburn Reality and Investments has generated this waste from washing/steam cleaning oil field tools.

Mashburn Reality and Investments generated this waste at:
8801 West County Road
Odessa, TX (Ector County) 79762
Referenced Waste Code # 00016032

The transporter of this waste will be Henderson Environmental of Lubbock, Texas. Henderson Environmental is at:

PO Box 2507
Lubbock, Texas 79408
(806) 744-6278
TX ID# 83346
EPA ID# TXR000006411

Please find attached copies of the certificate of waste, analytical data, and chain of custody forms. Should you require additional information or have any questions please contact me at (915) 522-2133.

Sincerely,
LLANO-PERMIAN ENVIRONMENTAL SERVICES

Melinda Beggs
Environmental Technician

Attachments

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

May 20, 1999
Receiving Date: 05/05/99
Sample Type: Sludge
Project #: TRO001ESA
Project Location: Odessa

ANALYTICAL RESULTS FOR
LLANO PERIAM ENVIRONMENTAL
Attention: Terry James
4104 West 33rd Avenue East
Amarillo, Texas 79109-3234

Extraction Date: 05/12/99
Analysis Date: 05/12/99
Sampling Date: 05/04/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: 8801 W. Co. Road

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T124176	Sludge	Non-reactive	100	2.5	Non-corrosive	7.0	Non-Ignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: SO

Director, Dr. Blair Leftwich

5-20-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERIAM ENVIRONMENTAL
Attention: Terry James
4104 West 33rd Avenue East
Amarillo, Texas 79109-3234

May 20, 1999
Receiving Date: 05/05/99
Sample Type: Sludge
Project #: TRO001ESA
Project Location: Odessa

Sampling Date: 05/04/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: 8801 W. Co. Road

TCLP METALS

TA#	Field Code	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T124176	Sludge	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	0.68	<0.010
ICV		0.98	0.97	0.99	0.99	0.99	0.19	0.99	0.0053
CCV		0.99	1.0	1.0	1.0	1.0	0.19	1.0	0.0046
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		5	0	0	5	0	0	5	3
% Extraction Accuracy		105	105	95	100	95	112	105	92
% Instrument Accuracy		98	98	99	99	99	95	99	100
Prep Date:		05/06/99	05/06/99	05/06/99	05/06/99	05/06/99	05/06/99	05/06/99	05/06/99
Analysis Date:		05/09/99	05/09/99	05/09/99	05/09/99	05/09/99	05/09/99	05/09/99	05/10/99

METHODS: EPA 846-1311, 6010B, 7470A
CHEMIST: TCLP METALS: RR Hg: BP
TCLP METAL SPIKE: Ag: 0.25 mg/L As, Ba, Cd, Cr, Pb, Se: 2.0 mg/L Hg SPIKE: 0.050 mg/L
TCLP METAL CV: Ag: 0.20 mg/L As, Ba, Cd, Cr, Pb, Se: 1.0 mg/L Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

5-20-99
Date

05/26/1999 10:00 9155203844 LP ENVIRONMENTAL PAGE 05

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERIAM ENVIRONMENTAL
Attention: Terry James
4104 West 33rd Avenue East
Amarillo, Texas 79109-3234

May 20, 1999
Receiving Date: 05/05/99
Sample Type: Sludge
Project #: TRO001ESA
Project Location: Odessa

Set Date: 05/05/99
Extraction Date: 05/10/99
Analysis Date: 05/10/99
Sampling Date: 05/04/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: 8801 W. Co. Road

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T124176 Sludge	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	81	5	38	101
1,4-Dichlorobenzene	7.5	0.05	ND	80	2	62	100
o-Cresol	200.0	0.05	ND	80	9	57	100
m,p-Cresol	200.0	0.05	0.08	81	7	98	101
Hexachloroethane	3.0	0.05	ND	82	1	67	102
Nitrobenzene	2.0	0.05	ND	75	1	70	94
Hexachlorobutadiene	0.5	0.05	ND	81	1	68	101
2,4,6-Trichlorophenol	2.0	0.05	ND	77	1	69	96
2,4,5-Trichlorophenol	400.0	0.05	ND	86	0	75	108
2,4-Dinitrotoluene	0.13	0.05	ND	81	4	72	101
2,4-D	10.0	0.05	ND	81	3	59	101
Hexachlorobenzene	0.13	0.05	ND	81	0	75	101
2,4,5-TP	1.0	0.05	ND	79	14	53	99
Pentachlorophenol	100.0	0.05	ND	89	4	72	111

Surrogates	% RECOVERY
2-Fluorophenol	35
Phenol-d6	24
Nitrobenzene-d5	83
2-Fluorobiphenyl	83
2,4,6-Tribromophenol	95
Terphenyl-d14	78

ND - Not Detected

Methods: EPA SW 846-1311, 8270
CHEMIST: LK

Director, Dr. Blair Leftwich

5-20-99
Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERIAM ENVIRONMENTAL
Attention: Terry James
4104 West 33rd Avenue East
Amarillo, Texas 79109-3234

May 20, 1999
Receiving Date: 05/05/99
Sample Type: Sludge
Project #: TRO001ESA
Project Location: Odessa

Extraction Date: 05/11/99
Analysis Date: 05/12/99
Sampling Date: 05/04/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: 8801 W. Co. Road

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T124176 Sludge	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	101	2	91	101
1,1-Dichloroethene	0.70	0.05	ND	112	10	101	112
Methyl Ethyl Ketone	200.0	0.5	ND	117	7	100	117
Chloroform	6.00	0.05	ND	98	1	112	98
1,2-Dichloroethane	0.50	0.05	ND	97	0	107	97
Benzene	0.50	0.05	ND	101	0	112	101
Carbon Tetrachloride	0.50	0.05	ND	112	5	121	112
Trichloroethene	0.50	0.05	ND	107	1	114	107
Tetrachloroethene	0.70	0.05	ND	110	1	122	110
Chlorobenzene	100.00	0.05	ND	103	2	107	103
1,4-Dichlorobenzene	7.50	0.05	ND	100	0	106	100

SURROGATES	% Recovery
Dibromofluoromethane	97
Toluene-d8	100
4-Bromofluorobenzene	100

ND = Not Detected

METHODS: EPA SW 846-1311, 8260
CHEMIST: JG

Director, Dr. Blair Leftwich

5-20-99
Date

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Terry James
Llano Permian Environmental
4104 West 33rd Avenue East
Amarillo, TX 79109-3234

Report Date: 5/10/99

Project Number: TRO001ESA
Project Name: 8801 W. Co. Rd.
Project Location: Odessa

Order ID Number: 99050504

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
124176	Sludge	Sludge	5/4/99	-	5/5/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 99050504

Company Name: Llano - Permian
Phone #: 915/522-2133
Address: 1031 Andrews Hwy
Fax #: 915/522-2180
Contact Person: Terry James
Invoice to: (If different from above)
Project #: RD001ESA
Project Name: 8801 W. Co. Rd.
Project Location: Odessa
Sampler Signature: Melinda Bagg

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
12476	Sludge	1	1liter				✓			✓	✓	5-4-99	1420

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH TX 1005	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH							Turn Around Time if different from standard	Hold
		✓			✓	✓	✓	✓													

Relinquished by: Melinda Bagg Date: 5-4-99 Time: 4:15PM
Received by: Helen Shelton Date: 5/4/99 Time: 4:15 PM

Relinquished by: Helen Shelton Date: 5/4/99 Time: 6:45 PM
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Date: Time:
Nicki Windham 5-5-99 9:30

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 3 °
Log-in Review MH

REMARKS: 5 20

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 1 sample-HS

Carrier # Hand Delivered 1592845220

05/26/1999 10:00 9155203844 LP ENVIRONMENTAL PAGE 11

Report Date: 5/10/99 Order ID Number: 99050504 Page Number: 2 of 3

Analytical Results Report

Sample Number: 124176
Description: Sludge

Param	Flag	Result	Units	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
C6-C10		<500	mg/Kg	10	TX1005	5/7/99	5/7/99	MF	PB00633	QC00773	50
>C10-C28		8070	mg/Kg	10	TX1005	5/7/99	5/7/99	MF	PB00633	QC00773	50
C6-C28		8070	mg/Kg	10	TX1005	5/7/99	5/7/99	MF	PB00633	QC00773	50

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Units	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
C6-C10		<50	mg/Kg	50	5/7/99	PB00633	QC00773
>C10-C28		<50	mg/Kg	50	5/7/99	PB00633	QC00773
C6-C28		<50	mg/Kg	50	5/7/99	PB00633	QC00773

Quality Control Report
Matrix Spike and Matrix Duplicate Spike

Standard	Param	Units	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	C6-C10	mg/Kg	<50	1	250	231	92		80-120	0 - 20	QC00773
MS	>C10-C28	mg/Kg	<50	1	250	232	93		80-120	0 - 20	QC00773
MS	C6-C28	mg/Kg	<50	1	500	462	92		80-120	0 - 20	QC00773
MSD	C6-C10	mg/Kg	<50	1	250	275	110	17	80-120	0 - 20	QC00773
MSD	>C10-C28	mg/Kg	<50	1	250	281	112	19	80-120	0 - 20	QC00773
MSD	C6-C28	mg/Kg	<50	1	500	556	111	18	80-120	0 - 20	QC00773

Report Date: 5/10/99 Order ID Number: 99050504 Page Number: 3 of 3

Quality Control Report
Lab Control Spikes and Duplicate Spike

Standard	Param	Units	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	C6-C10	mg/Kg	<50	1	250	208	83		80-120	0 - 20	QC00773
LCS	>C10-C28	mg/Kg	<50	1	250	203	81		80-120	0 - 20	QC00773
LCS	C6-C28	mg/Kg	<50	1	500	411	82		80-120	0 - 20	QC00773
LCSD	C6-C10	mg/Kg	<50	1	250	206	82	1	80-120	0 - 20	QC00773
LCSD	>C10-C28	mg/Kg	<50	1	250	195	78	4	80-120	0 - 20	QC00773
LCSD	C6-C28	mg/Kg	<50	1	500	401	80	2	80-120	0 - 20	QC00773

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	Units	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	C6-C10		250	mg/Kg	220	88	80 - 120	5/7/99	QC00773
ICV	>C10-C28		250	mg/Kg	208	83	80 - 120	5/7/99	QC00773
ICV	C6-C28		500	mg/Kg	428	86	80 - 120	5/7/99	QC00773
CCV (1)	C6-C10		250	mg/Kg	258	103	80 - 120	5/7/99	QC00773
CCV (1)	>C10-C28		250	mg/Kg	240	96	80 - 120	5/7/99	QC00773
CCV (1)	C6-C28		500	mg/Kg	498	100	80 - 120	5/7/99	QC00773

THIS FORM IS FOR WASTE STREAMS ONLY



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
Waste Evaluation Section, MC 129
Industrial and Hazardous Waste Division
PO Box 13087
Austin TX 78711-3087

HAZARDOUS OR INDUSTRIAL WASTE STREAM NOTIFICATION FORM

INTRODUCTION

The Texas Solid Waste Disposal Act and the Resource Conservation and Recovery Act (RCRA) authorize the Texas Natural Resource Conservation Commission (TNRCC) to regulate hazardous and industrial solid waste activities in Texas. This form should be completed and returned to the address given above. Please complete all applicable pages and sign.

By the time you have finished reading the instructions, you could have been finished with your NOR update! How? Call (512) 239-6925 to get information on electronically updating your NOR.

Please note: For wastes generated on a one-time basis, you may elect to notify the TNRCC under the One Time Shipper program. A One Time Shipment waste code is issued by the TNRCC and is not added to your NOR. Contact the TNRCC at (512) 239-6832 for a One Time Shipment form (Form TNRCC-0757).

ORM CODES

Code	Waste description

ORGANIC SOLIDS (continued)

B488 Wood debris
B489 Petroleum contaminated solids
B490 Sand blasting waste
B491 Dewatered biological treatment sludge
B492 Dewatered sewage or other untreated biological sludge
B493 Catalyst waste
B494 Solids containing greater than or equal to (≥) 50 ppm and less than (<) 500 ppm PCBs
B495 Solids containing greater than or equal to (≥) 500 ppm PCBs
B496 Electrical equipment/devices containing greater than or equal to (≥) 50 ppm and less than (<) 500 ppm PCBs.
B497 Electrical equipment/devices containing greater than or equal to (≥) 500 ppm PCBs
B498 Soils containing greater than or equal to (≥) 50 ppm and less than (<) 500 ppm PCBs
B499 Soils containing greater than or equal to (≥) 500 ppm PCBs

SLUDGES

INORGANIC SLUDGES - waste that is primarily inorganic, with moderate-to-high water content and low organic content, and pumpable

B501 Lime sludge without metals
B502 Lime sludge with metals/metal hydroxide sludge
B503 Wastewater treatment sludge with toxic organics
B504 Other wastewater treatment sludge
B505 Untreated plating sludge without cyanides
B506 Untreated plating sludge with cyanides
B507 Other sludge with cyanides
B508 Sludge with reactive sulfides
B509 Sludge with other reactives
B510 Degreasing sludge with metal scale or filings
B511 Air pollution control device sludge (e.g., fly ash, wet scrubber sludge)
B512 Sediment or lagoon dragout contaminated with organics
B513 Sediment or lagoon dragout contaminated with inorganics only
B514 Drilling mud
B515 Asbestos slurry or sludge
B516 Chloride or other brine sludge
B519 Other inorganic sludges (Specify in Comments)
B597 Catalyst waste
B598 Nonhazardous sludges containing greater than or equal to (≥) 50 ppm and less than (<) 500 ppm PCBs
B599 Nonhazardous sludges containing greater than or equal to (≥) 500 ppm PCBs

ORGANIC SLUDGES - waste that is primarily organic with low-to-moderate inorganic solids content and water content, and pumpable

B601 Still bottoms of halogenated (e.g., chlorinated) solvents or other organic liquids
B602 Still bottoms of non-halogenated solvents or other organic liquids
B603 Oily sludge
B604 Organic paint or ink sludge
B605 Reactive or polymerizable organics
B606 Resins, tars, or tarry sludge
B607 Biological treatment sludge

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Weatherford**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Facility**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter
3. Address of Facility Operator **P. O. Box 388, Hobbs,**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **3000 W. County Rd. Hobbs, NM**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The attached analytical is for the Weatherford Hobbs Facility sump sludge. This material has been approved in the past. I have included a Certificate of Waste and a Chain of Custody.

05-002

Estimated Volume **200 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper Waste Management Facility Authorized Agent TITLE: **Bookkeeper** DATE: **5-18-99**

TYPE OR PRINT NAME: **Kath Harper** TELEPHONE NO. **(505) 393-1079**

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 6-1-99

APPROVED BY: Martyn J. Ruby TITLE: Environmental Geologist DATE: 6-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford Enterra

ADDRESS 3000 W. County Road

GENERATING SITE Hobbs Facility

COUNTY Lea STATE NM

TYPE OF WASTE Sump Sludge

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS washing/steam cleaning of oilfield tools

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Bill Martin
SIGNATURE

NAME Billy Martin
PRINTED

ADDRESS 3000 W. County Road

Hobbs, NM 88240

DATE 5-18-99

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-010
Project Location: Hobbs, NM

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project/Site Name: Yearly Sampling

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T102365	S1	<0.10	<0.10	0.11	<0.05	0.13	<0.05	0.68	<0.010
ICV		1.0	1.0	0.99	0.98	0.99	0.20	1.0	0.055
CCV		1.0	1.0	1.0	1.0	0.98	0.20	1.0	0.050
	Reporting Limit	0.10	0.10	0.02	0.05	0.10	0.05	0.10	<0.010
	EXTRACTION DATE	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/ 98
	ANALYSIS DATE	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/ 98
	RPD	0	0	0	0	0	16	5	2
	% Extraction Accuracy	95	100	95	95	95	108	105	98
	% Instrument Accuracy	100	100	99	99	98	100	100	105

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: SA/HC
METHODS: EPA SW 846-1311, 6010B, 7470
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 5.0 mg/L Ag; 0.050 mg/L Hg
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg

Director, Dr. Blair Leftwich

7-22-98
Date

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-010
Project Location: Hobbs NM

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

Extraction Date: 7/18/98
Analysis Date: 7/18/98
Sampling Date: 7/09/98
Sample Condition: I & C.
Sample Received by: VW
Project Name: Yearly Sampling

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	—
T102365	S1	Non-reactive	<10	<2.5	Non-corrosive	7.7	Nonignitable
QC	Quality Control	—	—	—	—		—
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		—	—	—	—	—	—

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

7-22-98
DATE

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Llano Permian Environmental
Attention Robbie Walker
1031 Andrews Hwy, Ste. 207
Midland Tx.79701

Date: Jul 15, 1998
Date Rec: 7/10/98
Project: 101-010
Proj Name: Yearly Sampling
Proj Loc: Hobbs, NM

Lab Receiving # : 9807000174
Sampling Date: 7/9/98
Sample Condition: Intact and Cool
Sample Received By: VW

TA#	Field Code	MATRIX	TRPHC (mg/Kg)
102365	S1	Sludge	586,000
	Method Blank		<10.0
	Reporting Limit		10
	QC		103
	RPD		4
	% Extraction Accuracy		110
	% Instrument Accuracy		103

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
TRPHC	EPA 3550	7/14/98	EPA 418.1	7/14/98	MS	100	250

Director, Dr. Blair Leftwich

7-15-98
Date

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

July 27, 1998
Receiving Date: 07/10/98
Sample Type: SLUDGE
Job Number: 101-010
Project Location: Hobbs, NM

Extraction Date: 07/21/98
Analysis Date: 07/22/98
Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Yearly Sampling

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T102365 S1	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.050	ND	118	2	87	118
1,1-Dichloroethene	0.70	0.050	ND	119	2	100	119
Methyl Ethyl Ketone	200.0	0.50	ND	83	1	116	83
Chloroform	6.00	0.050	ND	107	6	104	107
1,2-Dichloroethane	0.50	0.050	ND	107	7	91	107
Benzene	0.50	0.050	ND	110	2	106	110
Carbon Tetrachloride	0.50	0.050	ND	115	1	86	115
Trichloroethene	0.50	0.050	ND	117	2	110	117
Tetrachloroethene	0.70	0.050	ND	113	1	110	113
Chlorobenzene	100.00	0.050	ND	105	3	101	105
1,4-Dichlorobenzene	7.50	0.050	ND	110	1	109	110

SURROGATES	% Recovery
Dibromofluoromethane	83
Toluene-d8	88
4-Bromofluorobenzene	83

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: DG

Director, Dr. Blair Leftwich

7-22-98
DATE

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A | El Paso, Texas 79922 | 888•588•3443 | 915•585•3443 | FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project #: 101-010
Project Location: Hobbs, NM

Extraction Date: 7/13/98
Analysis Date: 07/18/98
Sampling Date: 07/09/98
Sample Condition: I & C
Sample Received by: VW
Project Name: Yearly Samp

T102365

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	S1	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	68	5	36	75
1,4-Dichlorobenzene	7.5	0.05	ND	80	2	58	100
o-Cresol	200.0	0.05	ND	70	6	45	88
m,p-Cresol	200.0	0.05	ND	64	8	74	80
Hexachloroethane	3.0	0.05	ND	66	4	49	83
Nitrobenzene	2.0	0.05	ND	78	1	68	98
Hexachlorobutadiene	0.5	0.05	ND	87	1	59	109
2,4,6-Trichlorophenol	2.0	0.05	ND	82	116*	13**	103
2,4,5-Trichlorophenol	400.0	0.05	ND	86	84*	25**	108
2,4-Dinitrotoluene	0.13	0.05	ND	74	4	66	93
2,4-D	10.0	0.05	ND	91	1	72	114
Hexachlorobenzene	0.13	0.05	ND	80	2	59	100
2,4,5-TP	1.0	0.05	ND	93	6	63	116
Pentachlorophenol	100.0	0.05	ND	79	141*	4**	99

Surrogates	% RECOVERY
2-Fluorophenol	30
Phenol-d6	27
Nitrobenzene-d5	64
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	63
Terphenyl-d14	69

ND - Not Detected

***NOTE: RPD out of control limits due to concentration of sample.**
****EA limits out of control limit due to concentration of sample.**

Methods: EPA SW 846-1311, 8270.
CHEMIST: MB

Director, Dr. Blair Leftwich

7-27-98
DATE

102365

Page 1 of 1

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 174

Company Name: Llano Permian Environmental Phone #: (915) 522-2133
Address: 1031 Andrews Hwy Midland TX 79701 Fax #: (915) 522-2180
Contact Person: Rabbie Walker
Invoice to: (If different from above) Weatherford 3000 W. County Rd Hobbs NM
Project #: 101-010 Project Name: Yearly Sampling
Project Location: Hobbs NM Sampler Signature: Rabbie Walker

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
102365	S1	2	40 mL				X			X		9/7/98	9:30

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH 418.1	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold
		X			X	X	X	X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Julie Ross	7/9/98	3:10PM	Helen Shelton	7/9/98	3:10 PM
Helen Shelton	7/9/98	6:00PM			
			Received at Laboratory by:	Date:	Time:
			[illegible]	7-10-98	10:00AM

LAB USE ONLY
Intact Y N
Headspace Y / N
Temp 4 °
Log-in Review

REMARKS: 7/28/98

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAY 13 1999
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8

Submit Orig
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Odessa Pipe Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Malco Trucking
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) Odessa Pipe Plant 8870 W. Loop 338 Odessa, TX	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Odessa Pipe Plant. The material was generated from the hydroblasting of oilfield pipe. This material has been approved in the past. I have included a Certificate of Waste Texas Waste Code and a Chain of Custody.

05-001

Estimated Volume 120 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 5-7-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 5-7-99

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 5-13-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford (Odessa Pipe Plant)

ADDRESS 8870 W. Loop 338 N. Odessa Tx. 79764

GENERATING SITE 8870 W. Loop 338N. Odessa Tx. 79764

COUNTY Ector STATE Texas

TYPE OF WASTE Sludge and waste Water

ESTIMATED VOLUME 120 bbls. (5040 gallons)

GENERATING PROCESS This waste was generated from hydroblasting of oilfield pipe.

REMARKS This waste is from Odessa Pipe Plant.

NMOCD FACILITY Controlled Recovery Inc.

TRUCKING COMPANY Malco trucking

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT James Scheen
SIGNATURE

NAME Weatherford (Odessa Pipe Plant)
PRINTED

ADDRESS 8870 W. Loop 338 North

Odessa Texas 79764

DATE 5-5-99

FROM : WEATHERFORD PHONE NO. : 9153685334 May. 05 1999 10:46AM P2

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab Batch # 171634-H

Contractor: Nickell Environmental Phone: (915) 520-4100

Address: 19 Barry Rd Midland, TX 797

Project Name: Sump disposal Project Director: Terry James

Project Location: Pipe Plant WLP Project Manager: Robbie Walker

Sampler Signature: Robbie Walker Project No: WEA116-0000 Pipe Plant

No. coolers this shipment: Contractor COC #

Carrier: FedEx Quote #:

Airbill No: 147701793 1 P.O. No:

Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P,G	Preservative Ice	Preservative Other	Sample Description	No. of Containers Total	BTEX 8260B/8021B-8015	TPH 418.1	TCLP Metals	RCI	TCLP VOA	TCLP SVOA	Please Hold	Turnaround - ASAP - 24 hrs - 48 hrs - Standard	Remarks	LAB ID #
SP	7/15	7:15					X	32 oz	G	X		Sump Sludge		X	X	X	X	X					1
																							2
																							3
																							4
																							5
																							6
																							7
																							8
																							9
																							10

Relinquished by: Robbie Walker DATE: 7/15/97 TIME: 9:15 Received by: DATE: TIME:

Received For Laboratory by:

Remarks

MAY 1999
Received

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plent WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171634-001					
	Field ID:	SP					
	Depth:						
Ignit.F.P. Analyzed by EPA 1010	Date Analyzed	- Analytical Results	deg. F				
	Jul 22, 1997						
Ignitability, Pensky-Martens	> 180						
TCLP Metals Analyzed by EPA1311/6010	Date Analyzed	- Analytical Results	ppm (mg/L - mg/Kg)				
	Jul 18, 1997						
Arsenic	< 0.5						
Barium	1.3						
Cadmium	< 0.10						
Chromium	< 0.5						
Lead	< 0.5						
Silver	< 0.08						
Selenium	< 0.4						
TCLP Mercury Analyzed by EPA 7470	Date Analyzed	- Analytical Results	ppm (mg/L - mg/Kg)				
	Jul 22, 1997						
Mercury	< 0.022						
Cyanide RCI Analyzed by SW846 7.3.3	Date Analyzed	- Analytical Results	ppm (mg/L - mg/Kg)				
	Jul 22, 1997						
Cyanide	< 0.5						
Sulfide RCI Analyzed by SW846 7.3.4	Date Analyzed	- Analytical Results	ppm (mg/L - mg/Kg)				
	Jul 22, 1997						
Sulfide	< 0.5						
pH Analyzed by EPA 9045	Date Analyzed	- Analytical Results	S.U.				
	Jul 16, 1997						
pH, Electrometric	7.30						
TCLP S.V. Analyzed by EPA 8270	Date Analyzed	- Analytical Results	ppm (mg/L - mg/Kg)				
	Jul 21, 1997						

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward T. Yonemoto, Ph.D
QA/QC Manager


MAY 1999
Received

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

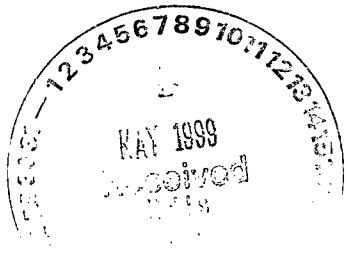
Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth:	171634-001 SP
1,4-Dichlorobenzene		< 0.513
2,4-Dinitrotoluene		< 0.051
Hexachlorobenzene		< 0.043
Hexachlorobutadiene		< 0.205
Hexachloroethane		< 0.513
2-Methylphenol		< 5.128
3-Methylphenol		< 5.128
4-Methylphenol		< 5.128
Nitrobenzene		< 0.513
Pentachlorophenol		< 5.128
Pyridine		< 0.513
2,4,5-Trichlorophenol		< 5.128
2,4,6-Trichlorophenol		< 0.513
TCLP Vol. Analyzed by EPA1311/8260		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)
		Jul 22, 1997
Benzene		< 0.05
2-Butanone		< 4.00
Carbon Tetrachloride		< 0.05
Chloroform		< 0.25
1,2-Dichloroethane		< 0.05
1,1-Dichloroethene		< 0.05
Tetrachloroethene		< 0.05
Trichloroethene		< 0.05
Vinyl chloride		< 0.025
Chlorobenzene		< 2.00

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Edward T. Yonemoto, Ph.D.
QA/QC Manager


MAY 1999
Received

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

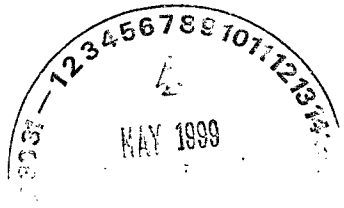
Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	*Lab ID:*	171634-001					
	Field ID:	SP					
	Depth:						
	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
TPH Analyzed by EPA 418.1		Jul 21, 1997					
Total Petroleum Hydrocarbons		10300					

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Edward H. Yonemoto, Ph.
QA/QC Manager


1 2 3 4 5 6 7 8 9 10 11 12 13 14
MAY 1999

75327 Weatherford U.S., Inc.

*** WASTE INFORMATION ***

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

***** Active Wastes *****

30103071 Active 01/26/94 Off No
Description from Generator: Pipe scale, scraping of pipe used in the oil and gas industry/ ongoing process.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

30116951 1 Active 01/26/94 Off No
Description from Generator: Sump material /tools are steam cleaned and washed to remove lubricants, dirt, paint, scale, and corrosion products/August 1993.
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

60012031 H Active 08/05/94 Off No No
Description from Generator: Spent solvents (mineral spirits/varsol). Oil field related equipment, tools and parts are rinsed in solvent to removed grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and silt debris parts washing.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D001 D006 D008 D018 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Spent Solvent - Parts Wash

60022031 H Active 08/05/94 Off No
Description from Generator: Spent immersion cleaner/cold cleaner. Oil field related equipment, tools, parts, and pipe are cleaned in immersion cleaner to remove grease and debris during servicing. Waste is a mixture of heavy aromatic Naptha, oil, Monoethanolamine, grease and silt debris.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D006 D008 D018 D021 D027 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Immersion Cleaner

60032051 1 Active 08/05/94 Off No
Description from Generator: Oil-water emulsion and mixture from oil field equipment servicing. Oil field hydraulic equipment, pipe, and tools are cleaned and reconditioned. Oil, grease, and wash water collect in sump. Waste is mixture of oil and water. Non-hazardous.
Form Code: 205 Oil-water emulsion or mixture
Current Management Units: None
* Origin Codes: 1 Onsite-process/service


MAY 1999
Received

75227 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

***** Active Wastes *****

Company's Internal Code(s): Sump Waste - Liquid

60045032 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, lumber, plastic, paper packing material, plastic packing material, styrofoam, glass, aluminum foil. Does not include metal parts, floor sweepings or scrap metals. Generating process is general non hazardous maintenance.

Form Code: 901 Plant production refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Plant Refuse

60059032 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, cardboard, linings, wrappings, paper, wood or plastic wrappings, food wastes, glass, aluminum foil, aluminum cans, plastics, styrofoam, food packings, empty shipping cartons, binders. Process generating is from general office operations.

Form Code: 903 Plant Office refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Office Refuse

60063102 1 Active 08/05/94 Off No

Description from Generator: Used oil filters from vehicle and equipment maintenance. Non-hazardous.

Form Code: 310 Spent solid filters or absorbants (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60072061 1 Active 08/05/94 Off No

Description from Generator: Used motor oil and used hydraulic oil from vehicle and equipment maintenance. to be sent to oil recycler. Non-hazardous.

Form Code: 205 Waste oil

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60083101 1 Active 08/05/94 Off No

Description from Generator: Used paint filters from spray paint application equipment used in painting oil field tools and equipment. Filters have been dried. There are no liquids present. Non-hazardous.

Form Code: 310 Spent solid filters or absorbants (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
MAY 1999

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	THRCC Audit Complete

****** Active Wastes ******

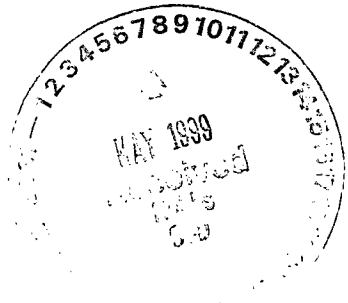
60092091 1 Active 08/05/94 Off No
Description from Generator: Paint waste, oil based, liquid containing paint thinner of mineral spirits/Varsol. Generating process is from painting oil field tools and equipment, general maintenance. Ignitable.
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60[illegible]91 1 Active 08/05/94 Off No
Description from Generator: Waste paint, water based. Process generating is from paint parts, tools and equipment - general maintenance.
Form Code: 209 Organic paint, ink, lacquer, or varnish
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60114091 1 Active 08/05/94 Off No
Description from Generator: Paint waste solids from clean up of paint booth overspray, floor scrappings and wood with overspray. Generating process is from painting oil field tools and equipment.
Form Code: 409 Other non-halogenated organic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60122111 1 Active 08/05/94 Off No
Description from Generator: Spent waste paint thinner used in thinning paint, cleaning paint equipment and general maintenance for paint preparation activities of oil field tools and equipment. Contains mineral spirits/Varsol/VM&P Naptha. Ignitable.
Form Code: 211 Paint thinner or petroleum distillates
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60113191 1 Active 08/05/94 Off No
Description from Generator: Pipe scale solids, including rust, drilling mud and dry oil. Generated during the cleaning and reconditioning of oil field drilling pipe. Non-hazardous.
Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service


1 2 3 4 5 6 7 8 9 10 11 12 13
MAY 1939

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

***** Active Wastes *****

60110911 1 Active 08/05/94 Off No
Description from Generator: Used lead batteries, or battery parts, casings or cores. Process generating is "out of service" batteries from facility vehicles and equipment maintenance. To be sent to battery recycler. Hazardous.
Form Code: 309 Batteries or battery parts, casings, cores
EPA Hazardous Waste Numbers: D002 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A55 Filter/Battery replacement
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7349 Building Maintenance Services, NEC

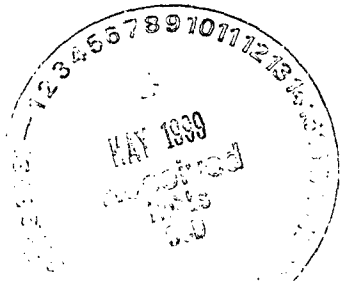
60110911 1 Active 08/05/94 Off No
Description from Generator: Oil absorbants, rags and pads from general clean up and maintenance activities. For cleaning minor releases of oil from maintenance and repair of equipment. Waste is generally a mixture of non-biodegradable absorbent granules, rags & pads impregnated with oil. Non-hazardous.
Form Code: 310 Spent solid filters or absorbents (inorganic)
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60163081 1 Active 08/05/94 Off No
Description from Generator: Empty metal drums and empty metal containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 305 Empty or crushed metal drums or containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

50174061 1 Active 08/05/94 Off No
Description from Generator: Empty fiber or plastic containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 406 Empty fiber or plastic containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60182961 1 Active 05/05/94 Off No
Description from Generator: Waste glycol based antifreeze/coolant. Removed from facility vehicles and equipment during service and repair. Non-hazardous.
Form Code: 296 Ethylene glycol based antifreeze
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60196351 1 Active 05/18/95 Off No
Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned & washed to remove lubricant, dirt, paint, scale & corrosion. Liquids are removed & sludge remains.
Form Code: 595 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump sludge


MAY 1999

5327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
***** Active Wastes *****						

60203071 1 Active 08/05/94 Off No

Description from Generator: Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Scrap metal

60219022 2 Active 08/05/94 Off No

Description from Generator: Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.
Form Code: 902 Supplemental plant production refuse
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60222191 1 Active 08/05/94 Off No

Description from Generator: Oil based machine coolant/water soluable. Liquid. Spent coolant from machining process of tooling, cutting and grooving. Non-hazardous.
Form Code: 219 Other organic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60234891 1 Active 09/18/95 Off No

Description from Generator: Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of drippings from application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60242058 H Active 08/05/94 Off No

Description from Generator: Paint waste, liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC


MAY 1999

75327 Weatherford U.S., Inc.

Form Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

***** Active Wastes *****

60253101H H Active 08/05/94 Off No
Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous.1
Form Code: 310 Spent solid filters or adsorbents (inorganic)
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes:
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Paint filters/hazardous

602...91 1 Active 08/05/94 Off No
Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60283131 1 Active 12/28/94 Off No
Description from Generator: Used tires removed from trucks & equipment. Tires are no longer in service & are sent to tire recycler.
Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

---

6029203H H Active 09/18/95 Off No No
Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between use. Waste includes paint aerosol cans with residual paint & propellant
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60304891 1 Active 09/18/95 Off No
Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Mate includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
MAY 1999

75127 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	THROC Audit Complete
** Active Wastes **						
6931103H II		Active	09/18/95	Off	No	No

Description from Generator: Spent caustic solution used for stripping paint & grease from oil field rental tools during cleaning process. Waste includes mixed solution of water, sodium hydroxide, oil, grease & paint.
Form Code: 109 Spent caustic
EPA Hazardous Waste Numbers: D002 D006 D007 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A03 Caustic (Alkali) cleaning
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found

99000	II	Active	Off	No	

Description from Generator: D001 CHARACTERISTIC OF IGNITABILITY
Form Code:
EPA Hazardous Waste Numbers: D018 D039
Current Management Units: None
* Origin Codes:

* The first value is considered the primary value (e.g. primary origin code).
As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

** No Longer Generated Wastes **

00196951	1	Inactive	09/18/95	DA	No	No

Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned and washed to remove lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump Sludge

00234691	1	Inactive	09/18/95	DA	No	No

Description from Generator: Pipe coating. Non hazardous. Pipe coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of the drippings from the application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None.
* Origin Codes: 1 Onsite-process/service
Co's Internal Code(s): Pipe coatings/drippings

As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.


MAY 1998

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/8

Submit Orig
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to appropri
District Of

RECEIVED
MAY 2 3 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Pure Gold
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Pure Gold. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-029

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 5-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 5-20-99

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 5-28-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Pure Gold

COUNTY Eddy STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water

REMARKS

NMOCD FACILITY Controlled Recovery, icn.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 5-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/26/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/26/99	03/26/99	03/24/99	03/24/99
H4075-1	PURE GOLD	Not reactive	Not reactive	6.37	>140
	NON EXEMPT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.8	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

3/26/99
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon

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ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/25/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		03/23/99	03/19/99	03/19/99	03/19/99	03/19/99	03/19/99	03/25/99	03/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4075-1	PURE GOLD	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	NON EXEMPT								
Quality Control		0.183	1.204	19.44	1.024	5.151	4.985	0.0095	0.053
True Value QC		0.200	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		92	120	97	102	103	99	95	106
Relative Standard Deviation		2.08	0.33	1.62	1.08	2.9	1.29	2.4	4.31
METHODS: EPA 1311, 600/4-91/		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

3/25/99
Date

H4075-1.XLS

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.005	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	MI(14)
Phenol-d5	25
Nitrobenzene-d5	66
2-Fluorobiphenyl	62
2,4,6-Tribromophenol	49
Terphenyl-d14	106

METHODS: EPA SW 846-8270, 1311
MI=Matrix Interference

Burgess J.A. Cooke, Ph. D.

3/22/99
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.025	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.025	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.250	<0.050	0.084	84	0.100
Chloroform	6.0	<0.025	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.025	<0.005	0.104	104	0.100
Benzene	0.5	0.354	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.025	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.025	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.025	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.025	<0.005	0.102	102	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.005	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	98
Bromofluorobenzene	95

METHODS: EPA SW 846-8260, 1311
NOTE: Matrix interference noted; dilution required.

Burgess J. A. Cooke, Ph. D.

3/22/99
Date

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APR 22'99 13:11 No.013 P.06

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: L G + E
Project Manager:
Address: 921 W Sanger
City: Hobbs State: NM Zip: 88240
Phone #: 393-2153
Fax #:
Project #: Project Owner:
Project Name: Pure Gold
Project Location:

BILL TO PO #:
Company: L G + E
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

Tele Notes, VH, SV

FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING	
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME
H4085-1	Pure Gold Non-Exempt				C								3/19/99	11:00

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice and all costs of collections, including attorney's fees.

Sampler Relinquished: Date: Time:
Received By:

Relinquished By: Date: 3/19/99 Time: 8:10
Received By: (Lab Staff)

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

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District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Antelope Ridge
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Antelope Ridge Plant. The was was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-024

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K. Marsh (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 5-18-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 5-20-99

APPROVED BY: Martyne J Kelly TITLE: Environmental Geologist DATE: 5-28-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Antelope Ridge Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88241

DATE 5-19-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-5
Sample ID: ANTELOPE RIDGE PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-5	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	0.062	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	32
Phenol-d5	31
Nitrobenzene-d5	67
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	76
Terphenyl-d14	118

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

PLEASE NOTE: **Liability and Damages.** **Cardinal's** liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-5
Sample ID: ANTELOPE RIDGE PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-5	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.057	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.134	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.016	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	89
Bromofluorobenzene	94

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE PLANT	Not reactive	Not reactive	8.74	>140
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Complete TCLP
14035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~11:45a~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff) Amy Hill	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAY 28 1999
Environmental Bureau
Oil Conservation Division

Form C
Originated

Submit O
Plus 1
to appro
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Calmon Static
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Calmon Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-019

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] Waste Management Facility Authorized Agent TITLE: Manager DATE: 5-18-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng DATE: 5-20-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 5-28-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbbs, NM 88240

GENERATING SITE Calmon Station

COUNTY Eddy STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 5-18-99

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-4
Sample ID: CALMON STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-4	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	26
Nitrobenzene-d5	64
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	63
Terphenyl-d14	87

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-4
Sample ID: CALMON STATION

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result* H4035-4	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.448	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene**	7.5	0.037	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	92
Toluene-d8	90
Bromofluorobenzene	112

METHODS: EPA SW 846-8260, 1311

* Matrix interference (foaming) observed.

** Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Composite TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	√
-2	Apex Station		2		X						X		2/22	9:05a	√
-3	Bootleg Station		2		X						X		2/22	10:45a	√
-4	Calmon Station		2		X						X		2/22	11:45a	√
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~1:45p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	√

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff) Amy Hill	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

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District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Bootleg Stati
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Bootleg Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-014

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 5-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 5-20-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 5-28-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Bootleg Station

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 5-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-3
Sample ID: BOOTLEG STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-3	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	22
Phenol-d5	24
Nitrobenzene-d5	70
2-Fluorobiphenyl	66
2,4,6-Tribromophenol	70
Terphenyl-d14	120

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/15/99
Reporting Date: 03/17/99
Project Number: NOT GIVEN
Project Name: NON-EXEMPT WATER
Project Location: BOOTLEG STATION
Lab Number: H4035-3
Sample ID: BOOTLEG STATION

Analysis Date: 03/16/99
Sampling Date: 03/15/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-3	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	<0.005	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.015	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	93
Toluene-d8	105
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311
* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

3/17/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST

Composite TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Hobbs Plant~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:05p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 5:31	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page____ of____

Company Name: SES Inc.	BILL TO PO #:
Project Manager: Dyke	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #: 397-0510	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: Non-Exempt Water	Fax #:
Project Location: Bootleg Station	

FOR LAB USE ONLY				MATRIX							PRES.			SAMPLING		ANALYSIS REQUEST
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	DATE	TIME	TCLP Volatiles only.
H4035-3			4		X						X		3/15/99	2:00p	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 3/15/99 Time: 2:06pm	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: Time:	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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District Of

RECEIVED
MAY 28 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Apex Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Apex Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Wasteand a Chain of Custody. This material has been approved in the past.

04-009

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 5-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 5-20-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 5-28-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Apex Station

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88240

DATE 5-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-2
Sample ID: APEX STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	46
Phenol-d5	19
Nitrobenzene-d5	67
2-Fluorobiphenyl	61
2,4,6-Tribromophenol	48
Terphenyl-d14	92

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-2
Sample ID: APEX STATION

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.211	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.059	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.008	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	80
Toluene-d8	97
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE PLANT	Not reactive	Not reactive	8.74	>140
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LC & E Natural	Fax #:
Project Location: Various	

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chloride TPH
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	√
-2	Apex Station		2		X						X		2/22	9:05a	√
-3	Bootleg Station		2		X						X		2/22	10:45a	√
-4	Calmon Station		2		X						X		2/22	11:45a	√
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	√

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/8

Submit Orig
Plus 1 C
to appropri
District Off

RECEIVED
MAY 28 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **LG&E Natural**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Plant**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Key**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **921 Sanger Hobbs, NM 88240**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-004

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: 5-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **(505) 393-1079**

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 5-20-99

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 5-28-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88241

DATE 5/18/99

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CRI

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
m, p-Cresol	200	0.089	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.744	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	SES, Inc	BILL TO	PO #:
Project Manager:	Dyke Browning	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:		City:	
Fax #:		State:	Zip:
Project #:	Project Owner:	Phone #:	
Project Name:	LG&E Natural	Fax #:	
Project Location:	Various		

FOR LAB USE ONLY				MATRIX							PRES.			SAMPLING		ANALYSIS REQUEST
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	1 composite TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~11:45a~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

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to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **BJ Services**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs facility**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **CRI**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **2708 W. County Rd. Hobbs, NM**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the BJ Services Hobbs facility. The material was generated by washing trucks. This material has been approved in the past. I have included a certificate of waste & a chain of custody.

04-033

Estimated Volume **225 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **4-26-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kelly TITLE: Environmental Geologist DATE: 5-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ Services

ADDRESS 2708 West County Road, Hobbs, NM

GENERATING SITE Wash Bay

COUNTY Lea STATE NM

TYPE OF WASTE Wash Bay Wastewater

ESTIMATED VOLUME 225 bbls.

GENERATING PROCESS Washing trucks

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Kenny Hournbuckle
SIGNATURE

NAME Kenny Hournbuckle
PRINTED

ADDRESS 2708 West County Rd.

Hobbs, NM 88240

DATE 4-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ Services

ADDRESS 2708 West County Road, Hobbs, NM

GENERATING SITE Wash Bay

COUNTY Lea STATE NM

TYPE OF WASTE Wash Bay Wastewater

ESTIMATED VOLUME 225 bbls.

GENERATING PROCESS Washing trucks

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Kenny Hournbuckle
SIGNATURE

NAME Kenny Hournbuckle
PRINTED

ADDRESS 2708 West County Rd.

Hobbs, NM 88240

DATE 4-23-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BJ SERVICES
2708 N. WEST COUNTY ROAD
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/19/98
Reporting Date: 03/27/98
Project Owner: BJ SERVICES
Project Name: WASHBAYS (2) COMPOSITE
Project Location: HOBBS, NM YARD

Sampling Date: 03/19/98
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: GP

TCLP METALS

LAB NUMBEF SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:	03/25/98	03/20/98	03/20/98	03/20/98	03/20/98	03/20/98	03/26/98	03/25/98
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H3519-1 WASH BAY COMP.	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control	0.211	5.014	21.70	2.011	4.929	5.211	0.0103	0.206
True Value QC	0.200	5.000	20.00	2.000	5.000	5.000	0.0100	0.200
% Recovery	106	100	109	101	99	104	103	103
Relative Standard Deviation	8.3	0.6	6.6	0.7	0.6	2.1	3.9	2.6
METHODS: EPA 1311, 600/4-91/0	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Gayle A. Potter, Chemist

03/27/98
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BJ SERVICES
2708 N. WEST COUNTY ROAD
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/19/98
Reporting Date: 03/26/98
Project Owner: BJ SERVICES
Project Name: WASHBAYS (2) COMPOSITE
Project Location: HOBBS, NM YARD

Sampling Date: 03/19/98
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/20/98	03/20/98	03/25/98	03/25/98
H3519-1	WASH BAY COMP	Not reactive	Not reactive	9.11	Nonflammable
Quality Control		NR	NR	7.03	NR
True Value QC		NR	NR	7.00	NR
% Accuracy		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.4	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

3/26/98
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BJ SERVICES
2708 N. WEST COUNTY ROAD
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/19/98
Reporting Date: 03/24/98
Project Owner: BJ SERVICES
Project Name: WASHBAYS (2) COMPOSITE
Project Location: HOBBS, NM YARD
Lab Number: H3519-1
Sample ID: WASH BAY COMP.

Analysis Date: 03/23/98
Sampling Date: 03/19/98
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3519-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.002	0.012	12	0.100
1,4-Dichlorobenzene	7.50	<0.020	<0.002	0.027	27	0.100
o-Cresol	200	<0.020	<0.002	0.035	35	0.100
m, p-Cresol	200	<0.020	<0.002	0.037	37	0.100
Hexachloroethane	3.00	<0.020	<0.002	0.023	23	0.100
Nitrobenzene	2.00	<0.020	<0.002	0.046	46	0.100
Hexachloro-1,3-butadiene	0.500	<0.020	<0.002	0.037	37	0.100
2,4,6-Trichlorophenol	2.00	<0.020	<0.002	0.053	53	0.100
2,4,5-Trichlorophenol	400	<0.020	<0.002	0.058	58	0.100
2,4-Dinitrotoluene	0.130	<0.020	<0.002	0.068	68	0.100
Hexachlorobenzene	0.130	<0.020	<0.002	0.060	60	0.100
Pentachlorophenol	100	<0.020	<0.002	0.062	62	0.100

	% RECOVERY
Fluorophenol	30
Phenol-d5	26
Nitrobenzene-d5	51
2-Fluorobiphenyl	57
2,4,6-Tribromophenol	57
Terphenyl-d14	78

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

3/24/98
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BJ SERVICES
2708 N. WEST COUNTY ROAD
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/19/98
Reporting Date: 03/23/98
Project Owner: BJ SERVICES
Project Name: WASHBAYS (2) COMPOSITE
Project Location: HOBBS, NM YARD
Lab Number: H3519-1
Sample ID: WASH BAY COMP.

Analysis Date: 03/20/98
Sampling Date: 03/19/98
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.115	115	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.097	97	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.105	105	0.100
Chloroform	6.0	<0.005	<0.005	0.113	113	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.100	100	0.100
Benzene	0.5	<0.005	<0.005	0.114	114	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.102	102	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.119	119	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Chlorobenzene	100	<0.005	<0.005	0.119	119	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.116	116	0.100

	% RECOVERY
Dibromofluoromethane	92
Toluene-d8	92
Bromofluorobenzene	84

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

3/23/98
Date

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CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H3519

Page____ of____

Company Name:	BJ SERVICES	BILL TO PO #:	
Project Manager:		Company:	CRI
Address:	2708 N WEST COUNTY ROAD	Attn:	KEN MORGAN
City:	HOBBS State: NM Zip:	Address:	
Phone #:	505-392-5556	City:	HOBBS
Fax #:		State:	NM Zip:
Project #:	Project Owner: BJ SERVICES	Phone #:	
Project Name:	WASH BAYS (2) COMPOSITE	Fax #:	
Project Location:	HOBBS, N.M. - YARD		

ANALYSIS REQUEST

TCLP - COMPLETE

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRES.: ACID:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	
H3519-1	WASH BAY COMP		2		✓						✓		03/19/98	1:45	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 03/19/98 Time: 1:45	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 03/19/98 Time: 2:00	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAY 03 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Pure Gold
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Pure Gold. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-028

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh Waste Management Facility Authorized Agent TITLE: Manager DATE: 4-22-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kelly TITLE: Environmental Geologist DATE: 5-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Pure Gold

COUNTY Eddy STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water

REMARKS

NMOCD FACILITY Controlled Recovery, icn.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 4-22-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/26/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/26/99	03/26/99	03/24/99	03/24/99
H4075-1	PURE GOLD	Not reactive	Not reactive	6.37	>140
	NON EXEMPT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.8	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

3/26/99
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/25/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		03/23/99	03/19/99	03/19/99	03/19/99	03/19/99	03/19/99	03/25/99	03/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4076-1	PURE GOLD	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	NON EXEMPT								
Quality Control		0.183	1.204	19.44	1.024	5.151	4.965	0.0095	0.053
True Value QC		0.200	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		92	120	97	102	103	99	95	106
Relative Standard Deviation		2.08	0.33	1.62	1.08	2.9	1.29	2.4	4.31
METHODS: EPA 1311, 600/4-91/		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

3/25/99
Date

H4075-1.XLS

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.005	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

% RECOVERY	
Fluorophenol	MI(14)
Phenol-d5	25
Nitrobenzene-d5	66
2-Fluorobiphenyl	62
2,4,6-Tribromophenol	49
Terphenyl-d14	106

METHODS: EPA SW 846-8270, 1311
MI=Matrix Interference

Burgess J.A. Cooke, Ph. D.

3/22/99
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.025	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.025	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.250	<0.050	0.084	84	0.100
Chloroform	6.0	<0.025	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.025	<0.005	0.104	104	0.100
Benzene	0.5	0.354	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.025	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.025	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.025	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.025	<0.005	0.102	102	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.005	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	96
Bromofluorobenzene	85

METHODS: EPA SW 846-8260, 1311
NOTE: Matrix interference noted; dilution required.

Burgess J. A. Cooke, Ph. D.

3/22/99
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

PURE GOLD

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

APR 22'99 13:11 No.013 P.06

Company Name:	LG+E	BILL TO	PO #:
Project Manager:		Company:	LG+E
Address:	921 W Sanger	Attn:	
City:	Hobbs State: NM Zip:	88240 Address:	
Phone #:	393-2153	City:	
Fax #:		State:	Zip:
Project #:	Project Owner:	Phone #:	
Project Name:	Pure Gold	Fax #:	
Project Location:			

ANALYSIS REQUEST

TCLP METALS, VOL, SV

FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING	
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME
H4085-1	Pure Gold Non-Exempt				X								3/19/99	11:00

ID:

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date: 3/19/99	Received By: (Lab Staff)	REMARKS:
	Time: 8:10	Barry W. Price	
Delivered By: (Circle One)	Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

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Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **LG&E Natural**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Antelope Ridge**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Key**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **921 Sanger, Hobbs, NM 88240**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Antelope Ridge Plant. The was was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-023

Estimated Volume **100 bbl.s** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **4-22-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 5-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Antelope Ridge Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88241

DATE 4-22-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-5
Sample ID: ANTELOPE RIDGE PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-5	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	0.062	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	32
Phenol-d5	31
Nitrobenzene-d5	67
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	76
Terphenyl-d14	118

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-5
Sample ID: ANTELOPE RIDGE PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-5	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.057	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.134	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.016	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	89
Bromofluorobenzene	94

METHODS: EPA SW 846-8260, 1311
* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST

1 sample TCP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Bootleg Station~~	~~C~~	~~2~~	~~X~~							~~X~~		~~2/22~~	~~12:45p~~	DMB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31 p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 5:31	Received By: (Lab Staff) Amy Hill	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

APR 1999
Received
Hobbs
O.D

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Environmental Bureau
Oil Conservation Division

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to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **LG&E**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Calmon Station**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Key**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **921 Sanger, Hobbs, NM 88240**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Calmon Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-018

Estimated Volume **100 bbl.s** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **4-22-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **(505) 393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 5-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbbs, NM 88240

GENERATING SITE Calmon Station

COUNTY Eddy STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 4-22-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-4
Sample ID: CALMON STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-4	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	26
Nitrobenzene-d5	64
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	63
Terphenyl-d14	87

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-4
Sample ID: CALMON STATION

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result* H4035-4	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.448	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene**	7.5	0.037	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	92
Toluene-d8	90
Bromofluorobenzene	112

METHODS: EPA SW 846-8260, 1311

* Matrix interference (foaming) observed.

** Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Burgett J. Cooke
Chemist

2/26/99
Date

H4035M.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Burgett A. Cooke
Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	
Address:	Company:
City: State: Zip:	Attn:
Phone #:	Address:
Fax #:	City:
Project #: Project Owner:	State: Zip:
Project Name: LG&E Natural	Phone #:
Project Location: Various	Fax #:

ANALYSIS REQUEST

1 sample TCP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	V
-2	Apex Station		2		X						X		2/22	9:05a	V
-3	Bootleg Station		2		X						X		2/22	10:45a	V
-4	Calmon Station		2		X						X		2/22	11:45a	V
Sample Invalid	~~Hobbs Plant~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~1:15p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	V

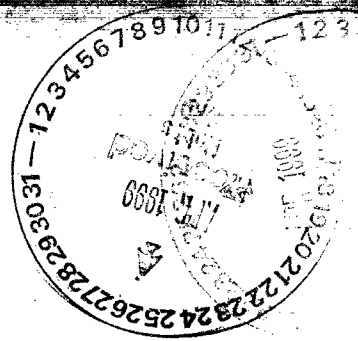
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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff) Amy Hill	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAY 03 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **LG&E**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Bootleg Station**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Key**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **921 Sanger, Hobbs, NM 88240**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Bootleg Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-013

Estimated Volume **100 bbl.s** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh Waste Management Facility Authorized Agent TITLE: **Manager** DATE: **4-22-99**

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **(505) 393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kelly TITLE: Environmental Geologist DATE: 5-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Bootleg Station

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 4-22-99

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-3
Sample ID: BOOTLEG STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-3	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	22
Phenol-d5	24
Nitrobenzene-d5	70
2-Fluorobiphenyl	66
2,4,6-Tribromophenol	70
Terphenyl-d14	120

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/15/99
Reporting Date: 03/17/99
Project Number: NOT GIVEN
Project Name: NON-EXEMPT WATER
Project Location: BOOTLEG STATION
Lab Number: H4035-3
Sample ID: BOOTLEG STATION

Analysis Date: 03/16/99
Sampling Date: 03/15/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-3	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	<0.005	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.015	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	93
Toluene-d8	105
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311
* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

3/17/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE PLANT	Not reactive	Not reactive	8.74	>140
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST: Composite TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Hobbs Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~1:15p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #: Fax Result: ☐ Yes ☐ No REMARKS: All samples taken with Coliwasa From top entry of tank
Relinquished By:	Date: 2/22/99 Time: 5:31	Received By: (Lab Staff)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page____ of____

Company Name: SES, Inc.	BILL TO PO #:
Project Manager: Dyke	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #: 397-0510	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: Non-Exempt Water	Fax #:
Project Location: Bootleg Station	

FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING		ANALYSIS REQUEST
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	DATE	TIME	TCLP Volatiles only.
14035-3			4		X						X		3/15/99	2:00p	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 3/15/99	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time: 2:06pm		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date:	Received By: (Lab Staff)	REMARKS:
	Time:		
Delivered By: (Circle One)	Sample Condition Cool Intact	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	☐ Yes ☐ Yes ☐ No ☐ No		

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.


APR 1999

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Oil Conservation Division

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Originated 8/8/

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to appropri
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Apex Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Apex Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Wasteand a Chain of Custody. This material has been approved in the past.

04-008

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Mcees l (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 4-22-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kiely TITLE: Environmental Geologist DATE: 5-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Apex Station

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 4-22-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-2
Sample ID: APEX STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	46
Phenol-d5	19
Nitrobenzene-d5	67
2-Fluorobiphenyl	61
2,4,6-Tribromophenol	48
Terphenyl-d14	92

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

PLEASE NOTE: **Liability and Damages.** **Cardinal's** liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-2
Sample ID: APEX STATION

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.211	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.059	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.008	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	80
Toluene-d8	97
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Burgett J. Cook
Chemist

2/26/99
Date

H4035M.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE PLANT	Not reactive	Not reactive	8.74	>140
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LC & E Natural	Fax #:
Project Location: Various	

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chloride TDS
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	√
-2	Apex Station		2		X						X		2/22	9:05a	√
-3	Bootleg Station		2		X						X		2/22	10:45a	√
-4	Calmon Station		2		X						X		2/22	11:45a	√
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~1:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	√

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **LG&E Natural**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Plant**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Key**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **921 Sanger Hobbs, NM 88240**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-003

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: **Manager** DATE: **4-22-99**

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **(505) 393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kieling TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88241

DATE 4-27-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CAI

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
m, p-Cresol	200	0.089	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.744	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST

Composite TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Hobbs Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~5:15p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:30	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:3	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 — 1 2
OCT 1989
PENNSYLVANIA
GAME
COMM

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

NEW MEXICO
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/

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Environmental Bureau
Oil Conservation Division

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to appropr
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford Enter
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Denver City Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Henderson Env.
3. Address of Facility Operator P. O. Box 388, Hobbs, NM 882	418. State NM
7. Location of Material (Street Address or ULSTR) Hwy 214 N Denver	City, TX 79323

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Enterra Denver City Facilit for waste water and sludge. The material is generated by the steam cleaning of oil field tools. Also enclosed is a Certificate of Waste, Texas Waste Code and a Chain of Custody. This material has been approved in the past.

04-001

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 4-12-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 4-19-99

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 4-15-99

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

NEW MEXICO
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/8

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Environmental Bureau
Oil Conservation Division

Submit Orig
Plus 1 C
to appropri
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford Enterr
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Denver City Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Henderson Env.
3. Address of Facility Operator P. O. Box 388, Hobbs, NM 88241	8. State NM
7. Location of Material (Street Address or ULSTR) Hwy 214 N Denver City, TX 79323	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

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The following analytical is from the Weatherford Enterra Denver City Facilit for waste water and sludge. The material is generated by the steam cleaning of oil field tools. Also enclosed is a Certificate of Waste, Texas Waste Code and a Chain of Custody. This material has been approved in the past.

04-001

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 4-12-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 4-15-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Weatherford Enterra

ADRESS Highway 214 North, Denver City, TX 79323

GENERATING SITE Highway 214 North, Denver City, TX 79323

COUNTY Yoakum STATE TX

TYPE OF WASTE Waste water and sludge

ESTIMATED VOLUME 200 bbls. (8400 gallons)

GENERATING PROCESS Steam cleaning of oil field tools.

REMARKS

NMOCD FACILITY **CONTROLLED RECOVERY INC.**

TRUCKING COMPANY Henderson Environmental (806) 744-6278

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my Knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40CFR, Section 2613.

AGENT Melinda Beggs
SIGNATURE

NAME Melinda Beggs
PRINTED

ADDRESS 1031 Andrews Hwy., Ste 207B
Midland, Texas 79701

DATE February 23, 1999

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Piedmont Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Llano Permian Environmental
Attention Terry James
1031 Andrews Hwy, Ste. 207
Midland Tx. 79701

Date: Feb 09, 1999
Date Rec: 2/4/99
Project: WEA003GCL
Proj Name: Denver City-Sump
Proj Loc: Denver City

Lab Receiving # : 990200007
Sampling Date: 2/3/99
Sample Condition: Intact and Cool
Sample Received By: VW

LA#	Field Code	MATRIX	C6-C10 (mg/Kg)	>C10-C28 (mg/Kg)	C6-C28 (mg/Kg)
18266	Sump Sample	Sludge	563	12,500*	13,000
	Method Blank		<50	<50	<50
	Reporting Limit		50	50	50
	%		250	240	490

Hydrocarbons greater than C28 present.

RPD	11	12	12
% Extraction Accuracy	100	96	98
% Instrument Accuracy	91	97	94

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: mg/Kg
TX1005	N/A	2/4/99	TX1005	2/6/99	MS	251 each	251 each

Director, Dr. Blair Leftwich

2-5-99
Date

TRACE ANALYSIS, INC.

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, TX 79701

bruary 17, 1999
ceiving Date: 02/04/99
mple Type: Sludge
oject No: WEA003GCL
oject Location: Denver City

Sampling Date: 02/03/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Denver City - Sump

TCLP METALS (mg/L)

A#	Field Code	Ag	As	Ba	Cd	Cr	Pb	Se	Hg
	EPA LIMIT =	5.0	5.0	100.0	1.0	5.0	5.0	1.0	0.20
118266	Sump Sample	<0.10	<0.10	0.66	<0.05	<0.20	<0.20	<0.10	<0.010
CV		0.20	0.98	0.96	0.95	0.98	0.94	1.0	0.0051
CV		0.19	0.90	0.91	0.92	0.94	0.91	0.98	0.0053
eporting Limit		0.10	0.10	0.10	0.05	0.20	0.20	0.10	0.010
RPD		2	5	0	0	5	15	0	2
% Extraction Accuracy		98	95	95	95	105	95	100	90
% Instrument Accuracy		95	94	93	93	96	92	99	106
EXTRACTION DATE		02/07/99	02/07/99	02/07/99	02/07/99	02/07/99	02/07/99	02/07/99	02/05/99
ANALYSIS DATE		02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/10/99

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba RR Hg. BP
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba, 0.40 mg/L Ag, 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba, 0.20 mg/L Ag, 0.050 mg/L Hg

Director, Dr. Blair Leftwich

2-17-99
Date

02/24/1999 09:48 9155203844 LP ENVIRONMENTAL PAGE 05

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, TX 79701

ebruary 17, 1999
eceiving Date: 02/04/99
ample Type: Sludge
roject No: WEA003GCL
roject Location: Denver City

Extraction Date: 02/10/99
Analysis Date: 02/14/99
Sampling Date: 02/03/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Denver City - Sump

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T118266 Sump Sample	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	98	4	98	98
1,1-Dichloroethene	0.70	0.05	ND	86	5	115	86
Methyl Ethyl Ketone	200.0	0.5	ND	99	9	119	99
Chloroform	6.00	0.05	ND	98	1	104	98
1,2-Dichloroethane	0.50	0.05	ND	95	1	103	95
Benzene	0.50	0.05	0.050	100	2	104	100
Carbon Tetrachloride	0.50	0.05	ND	98	2	111	98
Trichloroethene	0.50	0.05	ND	102	2	104	102
Tetrachloroethene	0.70	0.05	ND	112	0	118	112
Chlorobenzene	100.00	0.05	ND	102	0	107	102
1,4-Dichlorobenzene	7.50	0.05	ND	111	0	112	111

SURROGATES	% Recovery
Dibromofluoromethane	93
Toluene-d8	98
4-Bromofluorobenzene	99

ND = Not Detected

METHODS. EPA SW 846-1311, 8260B.
CHEMIST: JG

Director, Dr. Blair Leftwich

2-17-99
DATE

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4731 Piedras Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, TX 79701

ɔruary 17, 1999
ɔeiving Date: 02/04/99
ɲple Type: Sludge
ɔject No: WEA003GCL
ɔject Location: Denver City

Extraction Date: 02/09/99
Analysis Date: 02/10/99
Sampling Date: 02/03/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Denver City - Sump

ɔLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T118266 Sump Sample	QC	RPD	%EA	%IA
ɾridi-	5.0	0.05	ND	73	9	36	91
4-D[illegible]ene	7.5	0.05	ND	80	8	54	100
Cre	200.0	0.05	ND	74	0	56	93
,p-C.	200.0	0.05	ND	77	1	52	96
exa[illegible]ane	3.0	0.05	ND	83	9	57	104
ɪtroben[illegible]	2.0	0.05	ND	67	3	60	84
exachlor[illegible]butadiene	0.5	0.05	ND	83	5	64	104
,4,6-Trichlorophenol	2.0	0.05	ND	80	6	88	100
,4,5-Trichlorophenol	400.0	0.05	ND	83	10	81	104
,4-Dinitrotoluene	0.13	0.05	ND	83	7	72	104
,4-D	10.0	0.05	ND	81	1	40	101
lexachlorobenzene	0.13	0.05	ND	77	7	71	93
,4,5-TP	1.0	0.05	ND	72	7	40	90
ɔentachlorophenol	100.0	0.05	ND	89	7	85	111

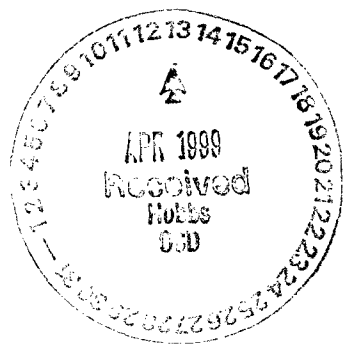
Surrogates	% RECOVERY
2-Fluorophenol	46
Phenol-d6	29
Nitrobenzene-d5	75
2-Fluorobiphenyl	87
2,4,6-Tribromophenol	100
Terphenyl-d14	79

ND - Not Detected

Methods: EPA SW 846-1311, 8270C.
CHEMIST: SO

Director, Dr. Blair Leftwich

2-17-99
DATE


APR 1999
Received
Notts
CCD

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 (806) 794-1296 FAX (806) 794-1298
4775 Indian Avenue, Suite A El Paso, Texas 79922 (915) 585-3443 FAX (915) 585-4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy. Suite 115
Midland, TX 79701

March 22, 1999
Receiving Date: 02/17/99
Sample Type: Sludge
Project No: WEA003GGL
Project Location: Denver City

Extraction Date: 02/09/99
Analysis Date: 02/09/99
Sampling Date: 02/03/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Denver City-Sump

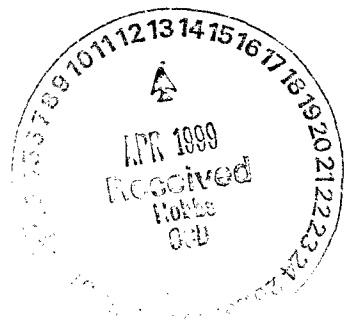
TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/y)	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	—
T118266	Sump Sample	Non-reactive	0.8	0.268	Non-corrosive	7.48	Nonignitable
QC	Quality Control	---	--	—	—	7.0	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	--	—	—	---	---
% Instrument Accuracy		---	--	—	—	100	—

METHODS: EPA SW846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1 335.1, SM4500 CN-C,E
CHEMIST: CS

Director, Dr. Blair Leftwich

3-22-99
DATE

04/12/1999 09:05 9155203844 LP ENVIRONMENTAL PAGE 02


APR 1999
Received

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794-1296 Fax (806) 794-1298
1 (800) 378-1296

CHAIN-OF-CUSTODY RECORD AND

LAB Order ID # 70

any Name: Llano-Permian Phone #: 915/522-2133

ss: 1031 Andrews Hwy, Ste 115 Fax #: 915/522-2180

t Person: Terry James

e to:

erent from above)

ct #: WEA003GC1 Project Name: Denver City - Sump

Location: Denver City Sampler Signature: Melinda Beggs

ANALYSIS REQUEST
(Circle or Specify Method No.)

B # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
266	Sump Sample	1	4oz				✓			✓	✓	2399	1255

MTBE 8020/602 | BTEX 8020/602 ✓ | TPH ✓ | PAH 8270 | Total Metals Ag As Ba Cd Cr Pb Hg Se | TCLP Metals Ag As Ba Cd Cr Pb Hg Se ✓ | TCLP Volatiles ✓ | TCLP Semi Volatiles ✓ | PCI ✓ | GC/MS Vol. 8240/8260/624 | GC/MS Semi. Vol. 8270/625 | PCB's 8080/608 | Pest. 8080/608 | BOD, TSS, PH | Turn Around Time if different from standard

HOLD

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Melinda Beggs	2-4-99	930am			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Wondra	Date: 2-4-99	Time: 9:30a

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 3 °
Log-in Review

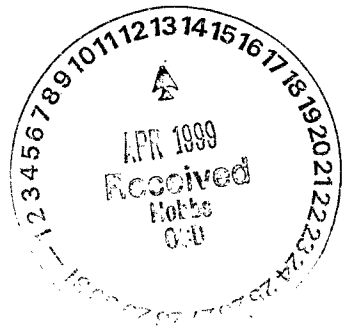
REMARKS:

Carrier # Carry

Initial of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

02/24/1999 09:48 9155203844 LP ENVIRONMENTAL PAGE 08


APR 1999
Received

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***
Notice of Registration
Industrial and Hazardous Waste

39109 Oilfield Rentals

Solid Waste Registration Number: 39109 EPA Id: TXD987982782

Company Name: Oilfield Rentals
Site Name: Dotco
Site Location: Highway 214, North of, Denver City, TX
Contact: Todd, L.C.

Region: 2
County: 251 Yoakum
Title:

Initial Registration Date: 08/01/1989
Last Amendment Date: 11/03/1994
Last Date NOR Computer update: 02/22/1996
Phone: 806-592-2550

Mailing Address: P.O. Box 1386
Denver City, TX 79323-1386

Site Street Address: Highway 214
North of
Denver City, TX

Registration Status: Inactive HW Permit #:
Registration Type: Generator
Generator Type:

Hazardous Waste Generation Status: Large Quantity Generator

Primary SIC Code: 1389 Oil & Gas Field Services, Not Elsewhere Found
Handler Status:

Operator Information
Name:
Address:

Owner Information
Name:
Address:

As of 11/03/1994 - the next unassigned sequence number for WASTES is 0001 and
the next unassigned sequence number for UNITS is 003.

APR 1999
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Hobbs
OCD

39109 Oilfield Rentals

**** UNITS AT THIS SITE MANAGING WASTE ****

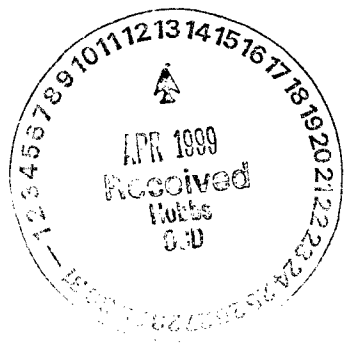
Unit Number	Unit Type	Unit Status	Date of Status	Classes of Waste Managed in Unit Onsite / Offsite	Unit Permit Number	Unit # on Permit	Regulatory Status	Deed Recording Needed/Date
** 'Active' & 'Closure Pending' Units **								
001	Tank (Surface)	Active	03/01/89	/ NA	NA	NA	RCRA Pmt Exempt - Accumulation Time	NA /

Description from Company: Oilfield fishing tool washing waste
Capacity: 6300.0000 Capacity Unit of Measure: G
System Types: 141 Storage
Biennial System Regulatory Status: Regulatory status unknown
Wastes Currently Managed in Unit:
Wastes Previously Managed in Unit: 909760 940080

002	Sump	Active	01/01/81	/ NA	NA	NA	RCRA Pmt Exempt - Accumulation Time	NA /

Description from Company: Washdown sump
Capacity: 100.0000 Capacity Unit of Measure: G
System Types: 141 Storage
Biennial System Regulatory Status: Regulatory status unknown
Wastes Currently Managed in Unit:
Wastes Previously Managed in Unit: 909760 940080

As of 11/03/1994, the next unassigned sequence number for UNITS is 003.


APR 1999
Received
Hobbs
OCD

P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
JUL 20 1999
Environmental Bureau
Oil Conservation Division

Form C-
Originated 8/

Submit Ori
Plus 1 (
to approp
District O

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-007

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 7/13/99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 7-14-99

APPROVED BY: Martyn J. Kirk TITLE: Environmental Geologist DATE: 7-21-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88241

DATE 7/13/99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CRI

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
m, p-Cresol	200	0.089	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.744	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J.A. Cooke, Ph. D.

2/23/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LC & E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST

1 month TAT

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	√
-2	Apex Station		2		X						X		2/22	9:05a	√
-3	Bootleg Station		2		X						X		2/22	10:45a	√
-4	Calmon Station		2		X						X		2/22	11:45a	√
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	√

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time: 3:31 p		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date: 2/22/99	Received By: (Lab Staff)	REMARKS: All samples taken with Coliwasa From top entry of tank
	Time: 3:3		
Delivered By: (Circle One)	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

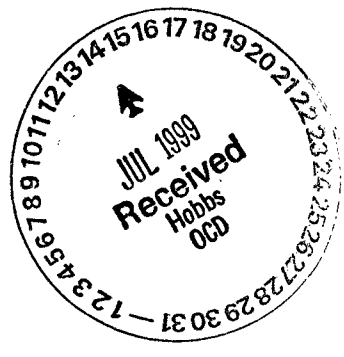
AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88241

DATE


JUL 1999
Received
Hobbs
OCD

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/8

Submit Orig
Plus 1 C
to appropri
District Of

RECEIVED
JUL 0 9 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-006

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh TITLE: Manager DATE: 6-30-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 7-2-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 7-12-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

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REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

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AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88241

DATE 6 30 99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CRI

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
m, p-Cresol	200	0.089	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.744	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE PLANT	Not reactive	Not reactive	8.74	>140
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	SES, Inc	BILL TO	PO #:
Project Manager:	Dyke Browning	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:		City:	
Fax #:		State:	Zip:
Project #:	Project Owner:	Phone #:	
Project Name:	LG&E Natural	Fax #:	
Project Location:	Various		

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: 1 sample TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Pipeline Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31 P	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:3	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One)		Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:			REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
Originated

Submit O
Plus 1
to appro
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Calmon Stati
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

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All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Calmon Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-020

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE 6-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyn J. Kieb TITLE: Environmental Geologist DATE: 6-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbbs, NM 88240

GENERATING SITE Calmon Station

COUNTY Eddy STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

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AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 6-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-4
Sample ID: CALMON STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-4	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
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Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	26
Nitrobenzene-d5	64
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	63
Terphenyl-d14	87

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-4
Sample ID: CALMON STATION

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result* H4035-4	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.448	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene**	7.5	0.037	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	92
Toluene-d8	90
Bromofluorobenzene	112

METHODS: EPA SW 846-8260, 1311
* Matrix interference (foaming) observed.
** Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST — Immediate TAT

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	√
-2	Apex Station		2		X						X		2/22	9:05a	√
-3	Bootleg Station		2		X						X		2/22	10:45a	√
-4	Calmon Station		2		X						X		2/22	11:45a	√
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~1:45p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	√

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Colilasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
Originated 8/

Submit Ori
Plus 1 (
to approp
District O

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Bootleg Stat
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Bootleg Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-015

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper Waste Management Facility Authorized Agent TITLE: BOOKKEEPER DATE: 6-18-99

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 6-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Bootleg Station

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 6-16-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-3
Sample ID: BOOTLEG STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-3	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	22
Phenol-d5	24
Nitrobenzene-d5	70
2-Fluorobiphenyl	66
2,4,6-Tribromophenol	70
Terphenyl-d14	120

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/15/99
Reporting Date: 03/17/99
Project Number: NOT GIVEN
Project Name: NON-EXEMPT WATER
Project Location: BOOTLEG STATION
Lab Number: H4035-3
Sample ID: BOOTLEG STATION

Analysis Date: 03/16/99
Sampling Date: 03/15/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-3	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	<0.005	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.015	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	93
Toluene-d8	105
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

3/17/99
Date

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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	SES, Inc	BILL TO	PO #:
Project Manager:	Dyke Browning	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:		City:	
Fax #:		State:	Zip:
Project #:	Project Owner:	Phone #:	
Project Name:	LG&E Natural	Fax #:	
Project Location:	Various		

FOR LAB USE ONLY				MATRIX							PRES.			SAMPLING		ANALYSIS REQUEST
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	Composite TCLP
74035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Hobbs Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 5:31	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Coliwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page____ of____

Company Name:	SES, Inc.	BILL TO	PO #:
Project Manager:	Dyke	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:	397-0510	City:	
Fax #:		State:	Zip:
Project #:	Project Owner:	Phone #:	
Project Name:	Non-Exempt Water	Fax #:	
Project Location:	Bootleg Station		

FOR LAB USE ONLY				MATRIX							PRES.			SAMPLING		ANALYSIS REQUEST
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	DATE	TIME	TCLP Volatiles only.
114035-3			4		X						X		3/1/99	2:00p	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 3/1/99	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time: 2:06pm		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date:	Received By: (Lab Staff)	REMARKS:
	Time:		
Delivered By: (Circle One)	Sample Condition Cool / Intact	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	☐ Yes ☐ Yes ☐ No ☐ No		

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/

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Plus 1 C
to appropr
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Apex Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Apex Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Wasteand a Chain of Custody. This material has been approved in the past.

04-010

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper Waste Management Facility Authorized Agent TITLE: BOOKKEEPER DATE: 6-18-99

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna L Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyne J Kieling TITLE: Environmental Geologist DATE: 6-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Apex Station

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88240

DATE 6-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-2
Sample ID: APEX STATION

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	46
Phenol-d5	19
Nitrobenzene-d5	67
2-Fluorobiphenyl	61
2,4,6-Tribromophenol	48
Terphenyl-d14	92

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-2
Sample ID: APEX STATION

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.211	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.059	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.008	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	80
Toluene-d8	97
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	SES, Inc	BILL TO	PO #:
Project Manager:	Dyke Browning	Company:	
Address:		Attn:	
City:	State: Zip:	Address:	
Phone #:		City:	
Fax #:		State:	Zip:
Project #:	Project Owner:	Phone #:	
Project Name:	LG&E Natural	Fax #:	
Project Location:	Various		

ANALYSIS REQUEST: Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	√
-2	Apex Station		2		X						X		2/22	9:05a	√
-3	Bootleg Station		2		X						X		2/22	10:45a	√
-4	Calmon Station		2		X						X		2/22	11:45a	√
Sample Invalid	~~Hobbs Plant~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~1:45p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	√

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff) Amy Hill	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Colilwasa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **LG&E Natural**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Plant**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Key**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **921 Sanger Hobbs, NM 88240**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-005

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 6-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 6-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88241

DATE 6-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CRI

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
m, p-Cresol	200	0.089	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.744	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.015	0.113	113	0.100

% RECOVERY	
Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
	PLANT								
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LG&E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST

Composite TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Hobbs Plant~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~11:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99 Time: 3:31p	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By:	Date: 2/22/99 Time: 3:31	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: All samples taken with Collinsa From top entry of tank

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/

Submit Orig
Plus 1 C
to appropr
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Antelope Ridge
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Antelope Ridge Plant. The was was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-025

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 6-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Marilyn J. Kelly TITLE: Environmental Geologist DATE: 6-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Antelope Ridge Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water at plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88241

DATE 6-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-5
Sample ID: ANTELOPE RIDGE PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-5	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	0.062	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	32
Phenol-d5	31
Nitrobenzene-d5	67
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	76
Terphenyl-d14	118

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-5
Sample ID: ANTELOPE RIDGE PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-5	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.057	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.134	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.016	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	89
Bromofluorobenzene	94

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

CARDINAL LABORATORIES

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ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68
METHODS: EPA 1311, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/26/99
Date

H4035M.XLS

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SES, Inc	BILL TO PO #:
Project Manager: Dyke Browning	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #:	City:
Fax #:	State: Zip:
Project #: Project Owner:	Phone #:
Project Name: LC & E Natural	Fax #:
Project Location: Various	

ANALYSIS REQUEST

Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	√
-2	Apex Station		2		X						X		2/22	9:05a	√
-3	Bootleg Station		2		X						X		2/22	10:45a	√
-4	Calmon Station		2		X						X		2/22	11:45a	√
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	√

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 2/22/99	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time: 3:30 p		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date: 2/22/99	Received By: (Lab Staff)	REMARKS: All samples taken with Coliwasa From top entry of tank
	Time: 3:30		
Delivered By: (Circle One)	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-1
Originated 8/8

Submit Orig
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to appropri
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Pure Gold
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs, NM 88240	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the LG&E Natural Pure Gold. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

04-030

Estimated Volume 100 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 6-18-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyn J. Parker TITLE: Environmental Geologist DATE: 6-23-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Pure Gold

COUNTY Eddy STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS from rain water and wash down water

REMARKS

NMOCD FACILITY Controlled Recovery, icn.

TRUCKING COMPANY Key Energy Services

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 6-18-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/26/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/26/99	03/26/99	03/24/99	03/24/99
H4075-1	PURE GOLD	Not reactive	Not reactive	6.37	>140
	NON EXEMPT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.8	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Bruce A. Cooke
Chemist

3/26/99
Date

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ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/25/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		03/23/99	03/19/99	03/19/99	03/19/99	03/19/99	03/19/99	03/25/99	03/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4076-1	PURE GOLD	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	NON EXEMPT								
Quality Control		0.183	1.204	19.44	1.024	5.151	4.985	0.0095	0.053
True Value QC		0.200	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		92	120	97	102	103	99	95	106
Relative Standard Deviation		2.08	0.33	1.62	1.08	2.9	1.29	2.4	4.31
METHODS: EPA 1311, 600/4-91/		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

3/25/99
Date

H4075-1.XLS

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ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.005	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.048	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

	% RECOVERY
Fluorophenol	MI(14)
Phenol-d5	25
Nitrobenzene-d5	66
2-Fluorobiphenyl	62
2,4,6-Tribromophenol	49
Terphenyl-d14	106

METHODS: EPA SW 846-8270, 1311
MI=Matrix Interference

Burgess J.A. Cooke, Ph. D.

3/22/99
Date

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.025	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.025	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.250	<0.050	0.084	84	0.100
Chloroform	6.0	<0.025	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.025	<0.005	0.104	104	0.100
Benzene	0.5	0.354	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.025	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.025	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.025	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.025	<0.005	0.102	102	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.005	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	96
Bromofluorobenzene	95

METHODS: EPA SW 846-8260, 1311
NOTE: Matrix interference noted; dilution required.

Burgess J. A. Cooke, Ph. D.

3/22/99
Date

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CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

APR 22'99 13:11 No.013 P.06

Company Name:	L G + E	BILL TO	PO #:
Project Manager:		Company:	L G + E
Address:	921 W Sanger	Attn:	
City:	Hobbs State: NM Zip:	88240 Address:	
Phone #:	393-2153	City:	
Fax #:		State:	Zip:
Project #:	Project Owner:	Phone #:	
Project Name:	Pure Gold	Fax #:	
Project Location:			

ID:

FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING		ANALYSIS REQUEST
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	TCLP Metals, Vol, SV
H4085-1	Pure Gold Non-Exempt				X								3/19/99	11:00	✓

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date: 3/19/99	Received By: (Lab Staff)	REMARKS:
	Time: 8:10		
Delivered By: (Circle One)	Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Baker Oil Tools**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **P. O. Box 1828 Hobbs, NM**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **CRI**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **507 W. Co. Rd.**	**Hobbs, NM**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Baker Oil Tools Hobbs Facility. The material was generated by steaming tools. This material has been approved in the past. I have included a certificate of waste and a chain of custody.

03-004

Estimated Volume **50 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **3-17-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Env. Geologist DATE: 3-24-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Baker Oil Tools

ADDRESS P O Box 1828 Hobbs, NM 88240

GENERATING SITE 507 West County Road

COUNTY Lea STATE NM

TYPE OF WASTE Sump Water

ESTIMATED VOLUME 50

GENERATING PROCESS Steaming Tools

REMARKS

NMOCD FACILITY CRI

TRUCKING COMPANY Controlled Recovery

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____
SIGNATURE

NAME Bob Lee
PRINTED

ADDRESS P O Box 1828

Hobbs, NM 88240

DATE 3-17-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/13/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM

Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: GP/AH

TCLP METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/12/98	02/06/98	02/11/98	02/12/98	02/12/98	02/12/98	02/10/98	02/06/98
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3444-1	WASHBAY	<1	<1	<5	<0.1	<1	<1	<0.02	<0.01
Quality Control		0.095	2.358	4.945	2.025	5.026	5.006	0.0087	0.0485
True Value QC		0.100	2.500	5.000	2.000	5.000	5.000	0.0100	0.0500
% Recovery		95	94	99	101	101	100	87	97
Relative Standard Deviation		7.5	0.5	14.6	0.9	1.9	4.7	8.9	10.1
METHODS: EPA 1311, 600/4-91/0		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

2/13/98
Date

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ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/07/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM
Lab Number: H3444-1
Sample ID: WASH BAY

Analysis Date: 02/06/98
Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3444-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.008	<0.002	0.028	28	0.100
1,4-Dichlorobenzene	7.50	<0.008	<0.002	0.052	52	0.100
o-Cresol	200	0.011	<0.002	0.055	55	0.100
m, p-Cresol	200	0.008	<0.002	0.115	58	0.200
Hexachloroethane	3.00	<0.008	<0.002	0.050	50	0.100
Nitrobenzene	2.00	<0.008	<0.002	0.079	79	0.100
Hexachloro-1,3-butadiene	0.500	<0.008	<0.002	0.063	63	0.100
2,4,6-Trichlorophenol	2.00	<0.008	<0.002	0.067	67	0.100
2,4,5-Trichlorophenol	400	<0.008	<0.002	0.072	72	0.100
2,4-Dinitrotoluene	0.130	<0.008	<0.002	0.106	106	0.100
Hexachlorobenzene	0.130	<0.008	<0.002	0.088	88	0.100
Pentachlorophenol	100	<0.008	<0.002	0.091	91	0.100

	% RECOVERY
Fluorophenol	29
Phenol-d5	29
Nitrobenzene-d5	71
2-Fluorobiphenyl	72
2,4,6-Tribromophenol	76
Terphenyl-d14	97

METHODS: EPA SW 846-8270, 1311, 3510

Burgess J. A. Cooke, Ph. D.

2/7/98
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/18/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM

Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/13/98	02/13/98	02/17/98	02/18/98
H3444-1	WASHBAY	<50	<50	7.26	>140
Quality Control		NR	0.105	7.01	NR
True Value QC		NR	0.100	7.00	NR
% Accuracy		NR	105	100	NR
Relative Percent Difference		NR	0	0.2	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/18/98
Date

H3444R.XLS

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/05/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM
Lab Number: H3444-1
Sample ID: WASH BAY

Analysis Date: 02/05/98
Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3444-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.103	103	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.087	87	0.100
Methyl Ethyl Ketone	200	0.055	<0.050	0.114	114	0.100
Chloroform	6.0	<0.005	<0.005	0.106	106	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.097	97	0.100
Benzene	0.5	0.009	<0.005	0.107	107	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.100	100	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.112	112	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Chlorobenzene	100	<0.005	<0.005	0.116	116	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.112	112	0.100

	% RECOVERY
Dibromofluoromethane	111
Toluene-d8	110
Bromofluorobenzene	97

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

2/5/98
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page____ of____

Company Name:	BAKER OIL TOOLS	BILL TO	PO #:
Project Manager:	BILL RUSSELL	Company:	BAKER
Address:	507 W County Road	Attn:	
City:	HOBBS State: NM Zip: 88240	Address:	P.O. Box 1828
Phone #:	505-397-3071	City:	HOBBS
Fax #:	505-393-4213	State:	NM Zip:
Project #:	WASH BAY Project Owner:	Phone #:	
Project Name:		Fax #:	
Project Location:	HOBBS		

ANALYSIS REQUEST

TCLP Complete

FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING	
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME
H 3444-1	WASH BAY	G	4		✓						✓		02/05/98	11:30

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By: Bill Russell	Date:	Received By: (Lab Staff)	REMARKS: COPY TO CRI
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 15 1999
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8

Submit Orig
Plus 1 C
to appropr
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 8870 W. Loop 338 N. Odessa
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Malco & Henderso
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 8870 W. Loop 338 North Odessa, Texas	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The attached analytical is for waste water and sludge generated from washing/steam cleaning oil field tools. This material has been approved in the past. I have included a certificate of waste, chain of custody, and a Texas Waste Code.

03-003

Estimated Volume 400 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 3-9-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Env Geologist DATE: 3-15-99

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR **WEATHERFORD**

ADDRESS **8870 WEST LOOP 338 ODESSA, TX. 79764**

GENERATING SITE **8870 WEST LOOP 338 ODESSA, TX 79764**

COUNTY **ECTOR** STATE **TEXAS**

TYPE OF WASTE **SLUDGE AND WASTE WATER**

ESTIMATED VOLUME **400 BBL. (16,800 GALLONS)**

GENERATING PROCESS **STEAM CLEANING OIL FIELD TOOLS**

REMARKS

NMOCD FACILITY **CONTROLLED RECOVERY INC.**

TRUCKING COMPANY **MALCO (915)563-9220, HENDERSON (806)744-6278**

As a condition of acceptance for disposal, I hearby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will by analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 2613.

AGENT Carolyn Burke
SIGNATURE

NAME **CAROLYN BURKE**
PRINTED

ADDRESS **8870 WEST LOOP 338 N**

ODESSA, TX. 79764

DATE **3/8/99**

ANALYTICAL REPORT 1-71344

for

Nickell Environmental

Project Manager: Chris E. Stapp

Project Name: Sump Removal

Project Id: WEA 116-0000

June 20, 1997

XENCO Laboratories

HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695

XENCO Laboratories
11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio

June 20, 1997

Project Manager: Chris E. Stapp
Nickell Environmental
11246 S. Post Oak #306
Houston, TX 77035

Reference: **XENCO Report No.: 1-71344**
Project Name: Sump Removal
Project ID: WEA 116-0000
Project Address: Odessa, TX WLP

Dear Chris E. Stapp:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-71344. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, and completeness.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-71344 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO Laboratories is accredited by the American Association for Laboratory Accreditation (A2LA) for technical competence in the field of Environmental Testing (Certificate No. 0343-01). In accordance with A2LA's guidelines, XENCO operates a Quality System that meets ISO/IEC Guide 25 requirements and is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Eddie Condemoto, Ph.D.
QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified in California, Oklahoma, Kansas, Arkansas, and approved by numerous other States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab. Batch # 171344

Contractor: Nickell Environmental Phone: (915) 520-4700

Address: 19 Barry Rd Midland TX 79706

Project Name: Sump removal Project Director: Chan Patel

Project Location: Odessa TX WLP Project Manager: Chris Stapp

Sampler Signature: Debbie Walker Project No.: WEA 116-0000

No. coolers this shipment: Contractor COC #

Carrier: FEDEX Quote #:

Airbill No.: 147701975 P.O. No.:

Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative: Ice	Preservative: Other	Matrix: Chl, Diss, Ker, Unknown, Waste Oil, PIT No:, Tank No:	Sample Description	No of Containers Total	BTEX (8020/8021)	TPH (418.1)	RCI	TCLP Metals	TCLP VOA	TCLP SVOA	Please Hold	Remarks	LAB ID #
1 S1	6/11	2:15			X			32oz	G	X			Sump	1		X	X	X	X	X			1
2 S2	6/11	2:20			X			32oz	G	X			Sump	1		X	X	X	X	X			2
3																							3
4																							4
5																							5
6																							6
7																							7
8																							8
9																							9
10																							10

Turn-around: ASAP / 24 hrs / 48 hrs / Standard

Relinquished by: Sampler	DATE	TIME	Received by: Signature	DATE	TIME
Debbie Walker	6/11/97	2:15pm			
			Received For Laboratory By:	6-12-97	10:00

Remarks

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

JUL-07-1997 10:36 NICKELL ENVIRONMENTAL

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

Nickell Environmental

Project ID: WEA 116-0000
Project Manager: Chris E. Stapp
Project Location: Odessa, TX WLP

Project Name: Sump Removal

XENCO COC#: 1-71344
Date Received in Lab: Jun 12, 1997 10:00 by RT
XENCO contact : Scott Sample/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Addition Requested	Extraction	Analysis
1	S1 Sump	171344-001	TPH	EPA 418.1	ppm	Standard	Jun 11, 1997 14:15		Jun 19, 1997 by JS	Jun 19, 1997 14:52 by JS
2			pH	SW846-9040	S.U.	Standard	Jun 11, 1997 14:15		Jun 12, 1997 by CY	Jun 12, 1997 16:20 by CY
3			Ignit/F.P.	SW-846 1010	deg. F	Standard	Jun 11, 1997 14:15		Jun 13, 1997 by CG	Jun 13, 1997 10:40 by CG
4			Cyanide RCI	SW846 7.3.3	mg/L	Standard	Jun 11, 1997 14:15		Jun 14, 1997 by CG	Jun 14, 1997 13:05 by CG
5			Sulfide RCI	SW846 7.3.4	mg/L	Standard	Jun 11, 1997 14:15		Jun 14, 1997 by CG	Jun 14, 1997 12:00 by CG
6			TCLP Metals	SW846-1311/60	mg/L	Standard	Jun 11, 1997 14:15		Jun 12, 1997 by JS	Jun 13, 1997 15:58 by SA
7			TCLP Mercury	EPA 1311/7470	mg/L	Standard	Jun 11, 1997 14:15		Jun 12, 1997 by JS	Jun 13, 1997 13:10 by EZ
8			TCLP Vol.	EPA 1311/8260	mg/L	Standard	Jun 11, 1997 14:15		Jun 19, 1997 by CE	Jun 19, 1997 15:44 by CE
9			TCLP S.V.	EPA 1311/8270	mg/L	Standard	Jun 11, 1997 14:15		Jun 17, 1997 by CY	Jun 17, 1997 16:30 by LC
10	S2 Sump	171344-002	TPH	EPA 418.1	ppm	Standard	Jun 11, 1997 14:20		Jun 19, 1997 by JS	Jun 19, 1997 14:54 by JS
11			pH	SW846-9040	S.U.	Standard	Jun 11, 1997 14:20		Jun 12, 1997 by CY	Jun 12, 1997 16:25 by CY
12			Ignit/F.P.	SW-846 1010	deg. F	Standard	Jun 11, 1997 14:20		Jun 13, 1997 by CG	Jun 13, 1997 10:50 by CG
13			Cyanide RCI	SW846 7.3.3	mg/L	Standard	Jun 11, 1997 14:20		Jun 14, 1997 by CG	Jun 14, 1997 13:10 by CG
14			Sulfide RCI	SW846 7.3.4	mg/L	Standard	Jun 11, 1997 14:20		Jun 14, 1997 by CG	Jun 14, 1997 12:05 by CG
15			TCLP Metals	SW846-1311/60	mg/L	Standard	Jun 11, 1997 14:20		Jun 12, 1997 by JS	Jun 13, 1997 16:05 by SA
16			TCLP Mercury	EPA 1311/7470	mg/L	Standard	Jun 11, 1997 14:20		Jun 12, 1997 by JS	Jun 13, 1997 13:11 by EZ
17			TCLP Vol.	EPA 1311/8260	mg/L	Standard	Jun 11, 1997 14:20		Jun 19, 1997 by CE	Jun 19, 1997 16:23 by CE
18			TCLP S.V.	EPA 1311/8270	mg/L	Standard	Jun 11, 1997 14:20		Jun 17, 1997 by CY	Jun 17, 1997 17:16 by LC

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71344

Nickell Environmental

Project Name: Sump Removal

Project ID: WEA 113-0000
Project Manager: Chris E. Stapp
Project Location: Odessa, TX WLP

Date Received in Lab: Jun 12, 1997 10:00 by RT
Date Report Faxed: Jun 20, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:*	171344-001 S1	171344-002 S2				
Ignit./F.P. Analyzed by EPA 1010		Date Analyzed - Analytical Results deg. F					
		Jun 13, 1997	Jun 13, 1997				
Ignitability, Pensky-Martens		> 180	> 180				
TCLP Metals Analyzed by EPA1311/6010		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 13, 1997	Jun 13, 1997				
Arsenic		< 0.6	< 0.6				
Barium		< 1.1	< 1.1				
Cadmium		< 0.11	< 0.11				
Chromium		< 0.6	< 0.6				
Lead		< 0.6	< 0.6				
Silver		< 0.09	< 0.09				
Selenium		< 0.4	< 0.4				
TCLP Mercury Analyzed by EPA 7470		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 13, 1997	Jun 13, 1997				
Mercury		< 0.020	< 0.020				
Cyanide RCI Analyzed by SW846 7.3.3		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 14, 1997	Jun 14, 1997				
Cyanide		< 0.5	< 0.5				
Sulfide RCI Analyzed by SW846 7.3.4		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 14, 1997	Jun 14, 1997				
Sulfide		< 0.5	< 0.5				
pH Analyzed by EPA 9040		Date Analyzed - Analytical Results S.U.					
		Jun 12, 1997	Jun 12, 1997				
pH, Electrometric		8.10	8.00				
TCLP S.V. Analyzed by EPA 8270		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 17, 1997	Jun 17, 1997				

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71344

Nickell Environmental

Project Name: Sump Removal

Project ID: WEA 116-0000
Project Manager: Chris E. Stapp
Project Location: Odessa, TX WLP

Date Received in Lab: Jun 12, 1997 10:00 by RT
Date Report Faxed: Jun 20, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	*Lab ID:*	171344-001	171344-002				
	Field ID:	S1	S2				
	Depth:						
1,4-Dichlorobenzene		< 1.00	< 1.00				
2,4-Dinitrotoluene		< 0.10	< 0.10				
Hexachlorobenzene		< 0.08	< 0.08				
Hexachlorobutadiene		< 0.40	< 0.40				
Hexachloroethane		< 1.00	< 1.00				
2-Methylphenol		< 10.00	< 10.00				
3-Methylphenol		< 10.00	< 10.00				
4-Methylphenol		< 10.00	< 10.00				
Nitrobenzene		< 1.00	< 1.00				
Pentachlorophenol		< 10.00	< 10.00				
Pyridine		< 1.00	< 1.00				
2,4,5-Trichlorophenol		< 10.00	< 10.00				
2,4,6-Trichlorophenol		< 1.00	< 1.00				
TCLP Vol. Analyzed by EPA1311/8260		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)
		Jun 19, 1997	Jun 19, 1997				
Benzene		< 0.1	< 0.1				
2-Butanone		< 8.0	< 8.0				
Carbon Tetrachloride		< 0.1	< 0.1				
Chloroform		< 0.5	< 0.5				
1,2-Dichloroethane		< 0.1	< 0.1				
1,1-Dichloroethene		< 0.1	< 0.1				
Tetrachloroethene		< 0.1	< 0.1				
Trichloroethene		< 0.1	< 0.1				
Vinyl chloride		< 0.05	< 0.05				
Chlorobenzene		< 4.0	< 4.0				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71344

Nickell Environmental

Project Name: Sump Removal

Project ID: WEA 116-0000
Project Manager: Chris E. Stapp
Project Location: Odessa, TX WLP

Date Received in Lab: Jun 12, 1997 10:00 by RT
Date Report Faxed: Jun 20, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	*Lab ID:*	171344-001	171344-002				
	Field ID:	S1	S2				
	Depth:						
TPH Analyzed by EPA 418.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 19, 1997	Jun 19, 1997				
Total Petroleum Hydrocarbons		11300	18400				

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Edward T. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch - 17A11A42

SW- 846 1010 Ignitability, Pensky- Martens

Date Validated: Jun 16, 1997 16:45
Date Analyzed: Jun 13, 1997 10:20
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Solid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 171332- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	deg. F	deg. F	deg. F	%	%	
Ignitability, Pensky-Martens	>180	>180	75-180	0.0	15.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18C40

SW846- 1311/6010 TCLP Metals

Date Validated: Jun 14, 1997 09:30
Date Analyzed: Jun 13, 1997 14:34
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Arsenic	< 0.22	1.97	2.22	0.22	88.7	65-135	
Barium	< 0.11	1.22	1.11	0.11	109.9	65-135	
Cadmium	< 0.056	0.387	0.444	0.056	87.2	65-135	
Chromium	< 0.22	0.94	1.11	0.22	84.7	65-135	
Lead	< 0.22	1.92	2.22	0.22	86.5	65-135	
Selenium	< 0.22	2.15	2.22	0.22	96.8	65-135	
Silver	< 0.089	0.654	0.888	0.089	73.6	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18C40

SW846- 1311/6010 TCLP Metals

Date Validated: Jun 14, 1997 09:30
Date Analyzed: Jun 13, 1997 15:02
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Solid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 171354- 009	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
	Sample	Duplicate	Method	QC LIMITS		Matrix Spike	Matrix	QC LIMITS		
Parameter	Result	Result	Detection Limit	Relative Difference	Relative Difference	Result	Spike Amount	Matrix Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Arsenic	< 0.22	< 0.22	0.22	N.C	25.0	2.1	2.2	93.2	65-135	
Barium	1.79	1.82	0.11	1.7	25.0	2.8	1.1	86.5	65-135	
Cadmium	< 0.056	< 0.056	0.056	N.C	25.0	0.38	0.44	86.5	65-135	
Chromium	< 0.22	< 0.22	0.22	N.C	25.0	1.0	1.1	85.6	65-135	
Lead	< 0.22	< 0.22	0.22	N.C	25.0	2.0	2.2	89.2	65-135	
Selenium	< 0.22	< 0.22	0.22	N.C	25.0	2.2	2.2	100.8	65-135	
Silver	< 0.089	< 0.089	0.089	N.C	25.0	0.73	0.89	82.4	65-135	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05B55

EPA 1311/7470 TCLP Mercury

Date Validated: Jun 14, 1997 09:45
Date Analyzed: Jun 13, 1997 12:59
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Solid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Mercury	< 0.0010	0.0018	0.0025	0.0010	72.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05B55

EPA 1311/7470 TCLP Mercury

Date Validated: Jun 14, 1997 09:45
Date Analyzed: Jun 13, 1997 13:01
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Solid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 171354- 013	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] QC LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] QC LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0010	< 0.0010	0.0010	N.C	25.0	0.0025	0.0025	100.0	65-135	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

JUL-07-1997 10:34 NICKELL ENVIRONMENTAL

XENCO Laboratories

Certificate Of Quality Control for Batch 17A12B11

SW846 7.3.3 Reactive Cyanide

Date Validated: Jun 16, 1997 16:30
Date Analyzed: Jun 14, 1997 12:40
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Method	QC	LIMITS	
Parameter	Result	Result	Spike Amount	Detection Limit	Blank Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	mg/L	%	%	
Cyanide	< 0.05	0.09	0.10	0.05	94.7	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch 17A12B10

SW846 7.3.4 Reactive Sulfide

Date Validated: Jun 16, 1997 16:35
Date Analyzed: Jun 14, 1997 11:40
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CG
Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Sulfide	< 0.50	6.48	6.80	0.50	95.3	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch: 17A13A82

EPA 150.1 pH, Electrometric

Date Validated: Jun 12, 1997 17:55
Date Analyzed: Jun 12, 1997 15:50
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CY
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					
Q.C. Sample ID 17134I- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Qualifier
Parameter	S.U.	S.U.	S.U.	%	%	
pH, Electrometric	7.196	7.215	0 - 14	0.3	3.0	

Relative Difference [D] = 200*(B-A)/(B+A)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch # 17A84C20

EPA 1311/8270 TCLP Semi-volatiles

Date Validated: Jun 18, 1997 14:01
Date Analyzed: Jun 17, 1997 14:59
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: LC
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifie
Acenaphthene	< 0.0020	0.0822	0.0886	0.1000	0.0020	31.0	7.5	82.2	88.6	46-118	
4-Chloro-3-Methylphenol	< 0.0010	0.0694	0.0630	0.1000	0.0010	42.0	9.7	69.4	63.0	23-97	
2-Chlorophenol	< 0.0040	0.0868	0.0900	0.1000	0.0040	40.0	3.6	86.8	90.0	27-123	
1,4-Dichlorobenzene	< 0.0040	0.0834	0.0980	0.1000	0.0040	28.0	14.0	83.4	98.0	36-97	
2,4-Dinitrotoluene	< 0.0010	0.0878	0.0946	0.1000	0.0010	38.0	7.5	87.8	94.6	24-96	
N-Nitroso-di-n-propylamine	< 0.0080	0.1010	0.1158	0.1000	0.0080	38.0	13.5	101.0	115.8	41-116	
4-Nitrophenol	< 0.0080	0.0372	0.0336	0.1000	0.0080	50.0	10.2	37.2	33.6	10-80	
Pentachlorophenol	< 0.0010	0.0664	0.0674	0.1000	0.0010	50.0	1.5	66.4	67.4	9-103	
Phenol	< 0.0040	0.0518	0.0466	0.1000	0.0040	42.0	10.6	51.8	46.6	12-89	
Pyrene	< 0.0040	0.0946	0.1070	0.1000	0.0040	31.0	12.3	94.6	107.0	26-127	
1,2,4-Trichlorobenzene	< 0.0040	0.0764	0.0842	0.1000	0.0040	28.0	9.7	76.4	84.2	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A01C45

SW846- 8260 Volatile Organic Analysis

Date Validated: Jun 20, 1997 12:45
Date Analyzed: Jun 19, 1997 17:42
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CE
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 171402- 004	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Method Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifi.
Parameter	mg/L	mg/L	mg/L	mg/L	mg/L	%	%	%	%	%	
Benzene	< 0.0010	0.0492	0.0492	0.0500	0.0010	11.0	0.0	98.4	98.4	76-127	
Chlorobenzene	< 0.0010	0.0492	0.0496	0.0500	0.0010	13.0	0.8	98.4	99.2	75-130	
1,1-Dichloroethene	< 0.0040	0.0421	0.0422	0.0500	0.0040	14.0	0.2	84.2	84.4	61-145	
Toluene	< 0.0010	0.0494	0.0479	0.0500	0.0010	13.0	3.1	98.8	95.8	76-125	
Trichloroethene	< 0.0030	0.0475	0.0480	0.0500	0.0030	14.0	1.0	95.0	96.0	71-120	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

JUL-07-1997 10:50
NICKELL ENVIRONMENTAL

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A07E24

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Jun 19, 1997 16:00
Date Analyzed: Jun 19, 1997 14:48
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: JS
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Method Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifi
Total Petroleum Hydrocarbons	< 0.51	4.34	4.40	4.71	0.51	25.0	1.4	92.1	93.4	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

TOTAL F.18

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A07E24

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Jun 19, 1997 16:00
Date Analyzed: Jun 19, 1997 14:48
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: JS
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Method Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifi
Total Petroleum Hydrocarbons	< 0.51	4.34	4.40	4.71	0.51	25.0	1.4	92.1	93.4	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

TOTAL F.18

NICKELL ENVIRONMENTAL


MAR 1999
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75327 Weatherford U.S., Inc.

Solid Waste Registration Number: 75327 EPA Id: TXD988025755

Company Name: Weatherford U.S., Inc. Region: 7 Initial Registration Date: 05/06/1991
Site Name: Odessa-Tool County: 68 Ector Last Amendment Date: 09/18/1995
Site Location: 8870 W Loop 338 N, Odessa, TX Last Date NOR Computer update: 06/19/1996
Contact: ~~Johnson, Mike~~ ? Title: Location Manager Phone: 915-550-9297

Mailing Address: P. O. Drawer 112
Odessa, TX 79760-0112

Site Street Address: 8870 W Loop 338 N
Odessa, TX 79764-

Registration Status: Active Reporting Method: STEERS
Registration Type: Generator
Generator Type: Non-industrial and/or municipal Hazardous Waste Generation Status: Small Quantity Generator

Primary SIC Code: 1389 Oil & Gas Field Services, Not Elsewhere Found
Handler Status:

Operator Information
Name:
Phone:
Address:

Owner Information
Name: Weatherford U.S., Inc.
Phone:
Address: P.O. Box 27608
Suite 1C00
Houston, TX, 77227-7608

As of 09/18/1995 - the next unassigned sequence number for WASTES is 6032 and
the next unassigned sequence number for UNITS is 001.

003 TX WATER COMM 02/20/97 12:56


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75327 Weatherford U.S., Inc.

**** WASTE INFORMATION ****

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
****** Active Wastes ******						
00103071 1		Active	01/26/93	Off		No

Description from Generator: Pipe scale, scraping of pipe used in the oil and gas industry/ ongoing process.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

---

00116951 1 Active 01/26/94 Off No

Description from Generator: Sump material /tools are steam cleaned and washed to remove lubricant, dirt, paint, scale, and corrosion products/August 1993.
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

---

60C1203H H Active 08/05/94 Off No No

Description from Generator: Spent solvents (mineral spirits/varsol). Oil field related equipment, tools and parts are rinsed in solvent to removed grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and silt debris parts washing.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D001 D006 D008 D018 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Spent Solvent - Parts Wash

6002203H H Active 08/05/94 Off No

Description from Generator: Spent immersion cleaner/cold cleaner. Oil field related equipment, tools, parts, and pipe are cleaned in immersion cleaner to remove grease and debris during servicing. Waste is a mixture of heavy aromatic Naptha, oil, Monoethanolamine, grease and silt debris.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D006 D008 D018 D021 D027 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Immersion Cleaner

60032051 1 Active 08/05/94 Off No

Description from Generator: Oil-water emulsion and mixture from oil field equipment servicing. Oil field hydraulic equipment, pipe, and tools are cleaned and reconditioned. Oil, grease, and wash water collect in sump. Waste is mixture of oil and water. Non-hazardous.
Form Code: 205 Oil-water emulsion or mixture
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

004 TX WATER COMM 02/20/97 12:58


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75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

****** Active Wastes ******

Company's Internal Code(s): Sump Waste - Liquid

60045012 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, lumber, plastic, paper packing material, plastic packing material, styrofoam, glass, aluminum foil. Does not include metal parts, floor sweepings or scrap metals. Generating process is general non hazardous maintenance.

Form Code: 901 Plant production refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Plant Refuse

60059032 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, cardboard, linings, wrappings, paper, wood or plastic wrappings, food wastes, glass, aluminum foil, aluminum cans, plastics, styrofoam, food packings, empty shipping cartons, binders. Process generating is from general office operations.

Form Code: 903 Plant Office refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Office Refuse

60063101 1 Active 08/05/94 Off No

Description from Generator: Used oil filters from vehicle and equipment maintenance. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60072061 1 Active 08/05/94 Off No

Description from Generator: Used motor oil and used hydraulic oil from vehicle and equipment maintenance. to be sent to oil recycler. Non-hazardous.

Form Code: 206 Waste oil

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60083101 1 Active 08/05/94 Off No

Description from Generator: Used paint filters from spray paint application equipment used in painting oil field tools and equipment. Filters have been dried. There are no liquids present. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

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02/20/97 12:57


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75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

****** Active Wastes ******

60092091H H Active 08/05/94 Off No
Description from Generator: Paint waste, oil based, liquid containing paint thinner of mineral spirits/Varsol. Generating process is from painting oil field tools and equipment, general maintenance. Ignitable.
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60102091 1 Active 08/05/94 Off No
Description from Generator: Waste paint, water based. Process generating is from paint parts, tools and equipmentl - general maintenance.
Form Code: 209 Organic paint, ink, lacquer, or varnish
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60114091 1 Active 08/05/94 Off No
Description from Generator: Paint waste solids from clean up of paint booth overspray, floor scrappings and wood with overspray. Generating process is from painting oil field tools and equipment.
Form Code: 409 Other non-halogenated organic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60122111H H Active 08/05/94 Off No
Description from Generator: Spent waste paint thinner used in thinning paint, cleaning paint equipment and general maintenance for paint preparation activities of oil field tools and equiment. Contains mineral spirits/Varsol/VM&P Naptha. Ignitable.
Form Code: 211 Paint thinner or petroleum distillated
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60133191 1 Active 08/05/94 Off No
Description from Generator: Pipe scale solids, including rust, drilling mud and dry oil. Generated during the cleaning and reconditioning of oil field drilling pipe. Non-hazardous.
Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

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Hobbs
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75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
****** Active Wastes ******						

60143091 H Active 08/05/94 Off No
Description from Generator: Used lead batteries, or battery parts, casings or cores. Process generating is "out of service" batteries from facility vehicles and equipment maintenance. To be sent to battery recycler. Hazardous.
Form Code: 309 Batteries or battery parts, casings, cores
EPA Hazardous Waste Numbers: D002 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A55 Filter/Battery replacement
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7349 Building Maintenance Services, NEC

60153101 1 Active 08/05/94 Off No
Description from Generator: Oil absorbants, rags and pads from general clean up and maintenance activities. For cleaning minor releases of oil from maintenance and repair of equipment. Waste is generally a mixture of non-biodegradable absorbent granules, rags & pads impregnated with oil. Non-hazardous.
Form Code: 310 Spent solid filters or absorbents (inorganic)
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

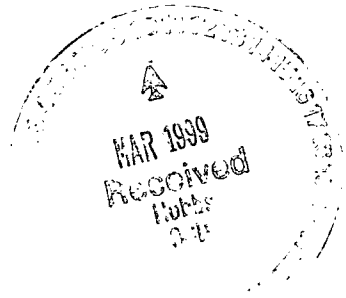
60163081 1 Active 08/05/94 Off No
Description from Generator: Empty metal drums and empty metal containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 308 Empty or crushed metal drums or containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60174061 1 Active 08/05/94 Off No
Description from Generator: Empty fiber or plastic containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 406 Empty fiber or plastic containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60182961 1 Active 08/05/94 Off No
Description from Generator: Waste glycol based antifreeze/coolant. Removed from facility vehicles and equipment during service and repair. Non-hazardous.
Form Code: 296 Ethylene glycol based antifreeze
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60196951 1 Active 09/18/95 Off No
Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned & washed to remove lubricant, dirt, paint, scale & corrosion. Liquids are removed & sludge remains.
Form Code: 595 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump sludge

TX WATER COMM 02/20/97 12:58


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75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
****** Active Wastes ******						
60203071 1		Active	08/05/94	Off		No

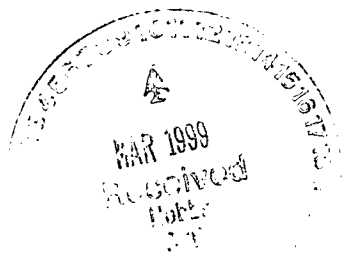
Description from Generator: Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Scrap metal

60219022 2 Active 08/05/94 Off No
Description from Generator: Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.
Form Code: 902 Supplemental plant production refuse
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60222191 1 Active 08/05/94 Off No
Description from Generator: Oil based machine coolant/water solvable. Liquid. Spent coolant from machining process of tooling, cutting and grooving. Non-hazardous.
Form Code: 219 Other organic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60234891 1 Active 09/18/95 Off No
Description from Generator: Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of drippings from application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60242058 H Active 08/05/94 Off No
Description from Generator: Paint waste, liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC


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75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

****** Active Wastes ******

60253101H H Active 08/05/94 Off No

Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous.1

Form Code: 310 Spent solid filters or adsorbents (inorganic)

EPA Hazardous Waste Numbers: D001 F003 F005

Current Management Units: None

* Origin Codes:

* Source Codes: A21 Painting

* Measurement Points: 1 Before mixing

* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

Company's Internal Code(s): Paint filters/hazardous

60264891 1 Active 08/05/94 Off No

Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.

Form Code: 489 Petroleum contaminated solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60283191 1 Active 12/28/94 Off No

Description from Generator: Used tires removed from trucks & equipment. Tires are no longer in service & are sent to tire recycler.

Form Code: 319 Other waste inorganic solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

---

6029209H H Active 09/18/95 Off No No

Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between use. Waste includes paint aerosol cans with residual paint & propellant

Form Code: 209 Organic paint, ink, lacquer, or varnish

EPA Hazardous Waste Numbers: D001 F003 F005

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

* Source Codes: A21 Painting

* Measurement Points: 1 Before mixing

* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

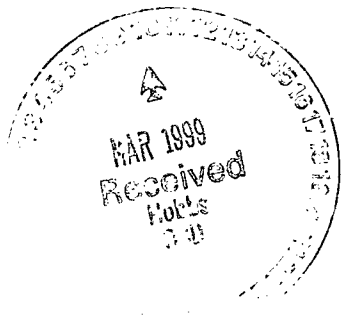
60304891 1 Active 09/18/95 Off No

Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Wate includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.

Form Code: 489 Petroleum contaminated solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service


MAR 1999
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75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	THROC Audit Complete

****** Active Wastes ******

6031109H H Active 09/18/95 Off No No

Description from Generator: Spent caustic solution used for stripping paint & grease from oil field rental tools during cleaning process. Waste includes mixed solution of water, sodium hydroxide, oil, grease & paint.
Form Code: 109 Spent caustic
EPA Hazardous Waste Numbers: D002 D006 D007 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A03 Caustic (Alkali) cleaning
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found

990001 H Active Off No

Description from Generator: D001 CHARACTERISTIC OF IGNITABILITY
Form Code:
EPA Hazardous Waste Numbers: D018 D039
Current Management Units: None
* Origin Codes:

* The first value is considered the primary value (e.g. primary origin code).
As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

** No Longer Generated Wastes **

00196951 1 Inactive 09/18/95 NA No No

Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned and washed to remove lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump Sludge

00234891 1 Inactive 09/18/95 NA No No

Description from Generator: Pipe coating. Non hazardous. Pipe coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of the drippings from the application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Pipe coatings/drippings

As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

010 TX WATER COMM 02/20/97 13:00


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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy., Suite 207
Midland, TX 79701

July 31, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-104
Project Location: Odessa, WLP

Extraction Date: 07/21/98
Analysis Date: 07/22/98
Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Annual Sampling

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T102366 SS-1	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	118	2	87	118
1,1-Dichloroethene	0.70	0.05	ND	119	2	100	119
Methyl Ethyl Ketone	200.0	0.5	ND	83	1	116	83
Chloroform	6.00	0.05	0.05	107	6	104	107
1,2-Dichloroethane	0.50	0.05	ND	107	7	91	107
Benzene	0.50	0.05	ND	110	2	106	110
Carbon Tetrachloride	0.50	0.05	ND	115	1	86	115
Trichloroethene	0.50	0.05	ND	117	2	110	117
Tetrachloroethene	0.70	0.05	ND	113	1	110	113
Chlorobenzene	100.00	0.05	ND	105	3	101	105
1,4-Dichlorobenzene	7.50	0.05	ND	110	1	109	110

SURROGATES	% Recovery
Dibromofluoromethane	85
Toluene-d8	88
4-Bromofluorobenzene	84

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: AG

Director, Dr. Blair Leftwich

7-31-98
DATE


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TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy., Suite 207
Midland, TX 79701

July 31, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-104
Project Location: Odessa, WLP

Prep Date: 07/18/98
Analysis Date: 07/18/98
Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Annual Sampling

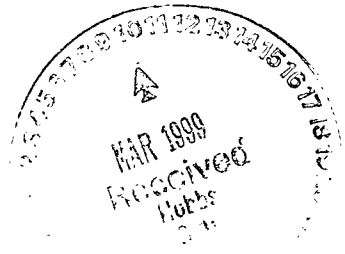
TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	—
T102366	SS-1	Non-reactive	<10	<2.5	Non-corrosive	7.9	Nonignitable
QC	Quality Control	—	—	—	—	7.0	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		—	—	—	—	—	—
% Instrument Accuracy		—	—	—	—	100	—

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

7-31-98
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Sent By: TRACEANALYSIS; 7941298; 31 Jul '98 2:43PM;Job 151;Page 4/5


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E-Mail: lab@traceanalysis.com

July 31, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-104
Project Location: Odessa, WLP

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy., Suite 207
Midland, TX 79701

Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Annual Sampling

TCLP METALS (mg/L)

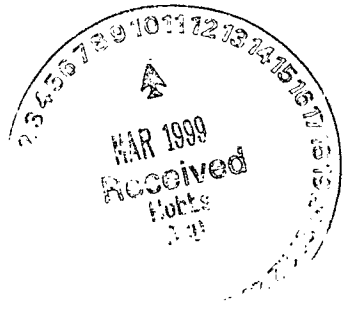
TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T102366	SS-1	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	<0.10	<0.010
ICV		1.0	1.0	0.99	0.98	0.99	0.20	1.0	0.055
CCV		1.0	1.0	1.0	1.0	0.98	0.20	1.0	0.050
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		0	0	0	0	0	16	5	2
% Extraction Accuracy		95	100	95	95	95	108	105	98
% Instrument Accuracy		100	100	99	99	98	100	100	105
EXTRACTION DATE		07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/15/98
ANALYSIS DATE		07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: SA/HC
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 20 mg/L As, Se, Cd, Cr, Pb, Ba; 5.0 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg.

Director, Dr. Blair Leftwich

7-31-98
Date

- Sent By: TRACEANALYSIS; 7941298; 31 Jul'98 2:42PM;Job 151;Page 3/5 LP ENVIRONMENTAL PAGE 04


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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy., Suite 207
Midland, TX 79701

July 31, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-104
Project Location: Odessa, WLP

Extraction Date: 07/13/98
Analysis Date: 07/29/98
Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Annual Sampling

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T102366 SS-1	cv	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	74	20	51	93
1,4-Dichlorobenzene	7.5	0.05	ND	74	16	94	93
o-Cresol	200.0	0.05	ND	76	12	73	95
m,p-Cresol	200.0	0.05	ND	77	20	118	96
Hexachloroethane	3.0	0.05	ND	74	8	111	93
Nitrobenzene	2.0	0.05	ND	77	17	98	96
Hexachlorobutadiene	0.5	0.05	ND	77	13	102	95
2,4,6-Trichlorophenol	2.0	0.05	ND	77	8	103	96
2,4,5-Trichlorophenol	400.0	0.05	ND	78	6	111	98
2,4-Dinitrotoluene	0.13	0.05	ND	73	0	100	91
2,4-D	10.0	0.05	ND	78	3	128	98
Hexachlorobenzene	0.13	0.05	ND	76	6	108	95
2,4,5-TP	1.0	0.05	ND	67	1	124	84
Pentachlorophenol	100.0	0.05	ND	80	5	94	100

Surrogates	% RECOVERY
2-Fluorophenol	24
Phenol-d6	13
Nitrobenzene-d5	59
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	64
Terphenyl-d14	85

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG

Director, Dr. Blair Leftwich

7-31-98
DATE


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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Llano Permian Environmental
Attention Robbie Walker
1031 Andrews Hwy, Ste. 207
Midland Tx.79701

Date: Jul 15, 1998
Date Rec: 7/10/98
Project: 101-104
Proj Name: Annual Sampling
Proj Loc: Odessa,WLP

Lab Receiving # : 9807000175
Sampling Date: 7/9/98
Sample Condition: Intact and Cool
Sample Received By: VW

TA#	Field Code	MATRIX	TRPHC (mg/Kg)
102366	SS-1	Sludge	453,000
Method Blank			<10.0
Reporting Limit			10
QC			103

RPD	4
% Extraction Accuracy	110
% Instrument Accuracy	103

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
TRPHC	EPA 3550	7/14/98	EPA 418.1	7/14/98	MS	100	250

Director, Dr. Blair Leftwich

7-15-98
Date


MAR 1999
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Notts

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794-1296 Fax (806) 794-1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #:

Company Name: Llano Permian Environmental Phone #: (915) 522-2133

Address: 1031 Andrews Hwy Midland TX 79701 Fax #: (915) 682-2180

Contact Person: Robbie Walker

Invoice to: (If different from above) Weatherford 8870 W Lp 338 Odessa TX 79764

Project #: 102-1064 Project Name: annual Samplins

Project Location: Odessa WLp Sampler Signature: Robbie Walker

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
8238-01	SS-1	2	2L				X			Y		7/9/98	12:20

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH				Turn Around Time if different from standard	Hold
		X			X	X	X	X										

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Robbie Rosa	7/9/98	3:10pm	Helen Shelton	7/9/98	3:10 PM
Helen Shelton	7/9/98	6:00 PM			
			Received at Laboratory by:	Date:	Time:
				7/10/98	10:00

LAB USE ONLY: Intact Y N; Headspace Y N; Temp 4°C; Log-in Review

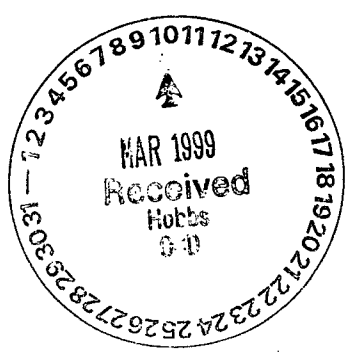
REMARKS: please mix Samples well before running analysis. 7/31/98

Carrier # Fed Ex 155758955 4

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 2 samples-HS

LAB COPY

Sent By: TRACEANALYSIS; 7941298; 9 Dec '98 9:09AM; Job 8; Page 1/1


MAR 1999
Received
Hobbs

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 15 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Dowel Schlumberger**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Facility**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Waste Management**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **New Mexico**
7. Location of Material (Street Address or ULSTR) **1105 W. Bender**	**Hobbs, NM**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Dowell Schlumberger Hobbs facility. This material was generated by washing trucks and oilfield equipment. This material has been approved in the past and I have included a certificate of waste and a chain of custody.

03-002

Estimated Volume **20 cu. yds** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

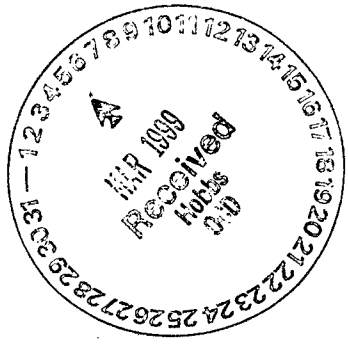
SIGNATURE: _____ TITLE: **Manager** DATE: **3-3-9**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist DATE: 3-15-99


APR 1999
Received
Hobbs
O.C.D

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Dowell Schlumberger

ADDRESS 507 E. Richey

GENERATING SITE Artesia, NM

COUNTY Eddy **STATE** NM

TYPE OF WASTE wet soil

ESTIMATED VOLUME 10 cubic yards Should Be 20 cyd Per CRI 3-15-99 mjk

GENERATING PROCESS washing trucks and oilfield pumping equipment

REMARKS

NMOCD FACILITY **CONTROLLED RECOVERY INC.**

TRUCKING COMPANY Waste Management

As a condition of acceptance for disposal, I hearby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 2813.

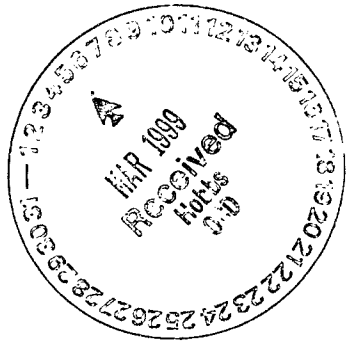
AGENT Darwin Thompson
SIGNATURE

NAME Darwin Thompson
PRINTED

ADDRESS PO Box 640

Hobbs, NM 88240

DATE 3-3-99


MAR 1999
Received
Hotts
D.C.

TO: WHOM IT MAY CONCERN

FROM: DARWIN THOMPSON

RE: WASTE DISPOSAL
DOWELL FACILITY
1105 W. BENDER
HOBBS, NM 88240

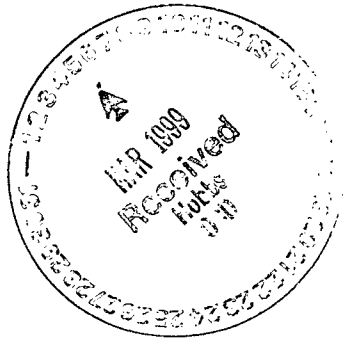
The waste we desire to dispose of at Controlled Recovery Incorporated has been generated by the collection of mud and silt at the truck wash bay.
The constituents of this waste stream will be water and soil. The results of the tests of these wastes have been forwarded to you under separate cover. The waste will be transported to CRI by Waste Management, who is authorized to haul this type of waste. This waste stream has been previously analyzed and approved by the OCD and it has not changed.

There are no known hazardous materials in this waste stream.

Sincerely,

Darwin Thompson
Maintenance Supervisor
Dowell, Hobbs, NM

Darwin Thompson


MAR 1999
Received
Hutt

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88241
FAX TO: 505-393-7629

Receiving Date: 02/20/97
Reporting Date: 03/08/96
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: HOBBS, NEW MEXICO

Sampling Date: 02/20/97
Sample Type: SOLID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: GP/AH

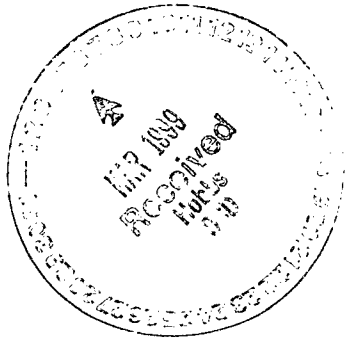
LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY
ANALYSIS DATE:		02/25/97	02/25/97	02/28/97	02/25/97
H2810-1	MUD WASHBAY	<50	<50	7.85	Nonflammable
H2810-2	OIL FILTER	<50	<50	N/A	Flammable
H2810-6	FLOOR SWEEP	<50	<50	7.00	Nonflammable
Quality Control		NR	0.105	6.95	NR
True Value QC		NR	0.100	7.00	NR
% Recovery		NR	105	99.3	NR
Relative Percent Difference		NR	4.8	0.7	NR

METHOD: EPA SW 846-7.3, 7.2, 1030 (Proposed), 40 CFR 261

Chemist

03/08/97
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.


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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88240
FAX TO: 505-393-7629

Receiving Date: 02/19/98
Reporting Date: 02/27/98
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS
Project Location: HOBBS
Modified Reporting Date: 04/17/98

Sampling Date: 02/19/98
Sample Type: SOLID
Sample Condition: COOL, INTACT
Sample Received By: BC
Analyzed By: GP

TCLP METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/26/98	02/27/98	02/26/98
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3475-1	WASHBAY MUD	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.199	4.945	10.17	1.968	5.535	4.937	0.0117	0.097
True Value QC		0.200	5.000	10.00	2.000	5.000	6.000	0.0100	0.100
% Recovery		100	99	102	98	110	99	117	97
Relative Standard Deviation		0.4	0.2	1.3	0.4	1.9	0.6	7.6	7.9
METHODS: EPA 1311, 600/4-91/0		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Gayle A. Potter, Chemist

04/17/98
Date

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88240
FAX TO: 505-393-7629

Receiving Date: 02/19/98
Reporting Date: 02/21/98
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS
Project Location: HOBBS
Lab Number: H3475-1
Sample ID: WASHBAY MUD

Analysis Date: 02/20/98
Sampling Date: 02/19/98
Sample Type: SOLID
Sample Condition: COOL, INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3475-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.085	85	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.082	82	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.111	111	0.100
Chloroform	6.0	<0.005	<0.005	0.107	107	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.092	92	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.099	99	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.100	100	0.100
Chlorobenzene	100	<0.005	<0.005	0.103	103	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.103	103	0.100

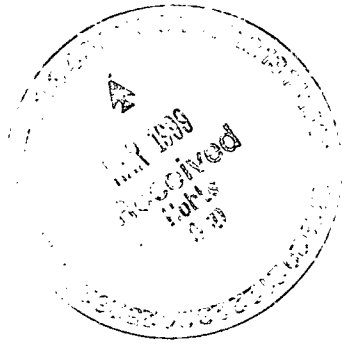
	% RECOVERY
Dibromofluoromethane	96
Toluene-d8	86
Bromofluorobenzene	89

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

2/21/98
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88240
FAX TO: 505-393-7629

Receiving Date: 02/19/98
Reporting Date: 02/21/98
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS
Project Location: HOBBS

Analysis Date: 02/20/98
Sampling Date: 02/19/98
Sample Type: SOLID
Sample Condition: COOL, INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)
H3475-1	WASHBAY MUD	61800
H3475-6	FLOOR SWEEP	97000
Quality Control		201
True Value QC		200
% Recovery		101
Relative Percent Difference		0.2

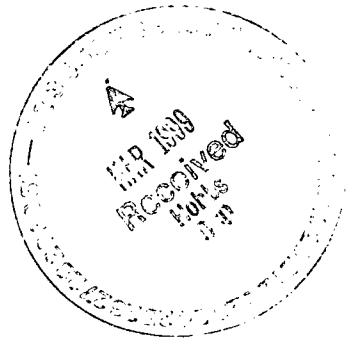
METHOD: EPA 418.1, 3510, 3540, or 3550; Infrared Spectroscopy

Chemist

2/21/98
Date

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H3475.XLS


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ANALYTICAL RESULTS FOR
DOWELL SCHLUMBERGER
ATTN: DARWIN THOMPSON
P.O. BOX 640
HOBBS, NM 88240
FAX TO: 505-393-7629

Receiving Date: 02/19/98
Reporting Date: 02/25/98
Project Number: NOT GIVEN
Project Name: ANNUAL ANALYSIS
Project Location: HOBBS
Lab Number: H3475-1
Sample ID: WASHBAY MUD

Analysis Date: 02/24/98
Sampling Date: 02/19/98
Sample Type: SOLID
Sample Condition: COOL, INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3475-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.028	28	0.100
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.052	52	0.100
o-Cresol	200	<0.020	<0.005	0.055	55	0.100
m, p-Cresol	200	<0.020	<0.005	0.115	58	0.200
Hexachloroethane	3.00	<0.020	<0.005	0.050	50	0.100
Nitrobenzene	2.00	<0.020	<0.005	0.079	79	0.100
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.063	63	0.100
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.067	67	0.100
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.072	72	0.100
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.106	106	0.100
Hexachlorobenzene	0.130	<0.020	<0.005	0.088	88	0.100
Pentachlorophenol	100	<0.020	<0.005	0.091	91	0.100

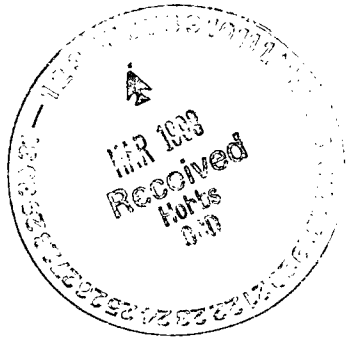
	% RECOVERY
Fluorophenol	40
Phenol-d5	35
Nitrobenzene-d5	70
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	68
Terphenyl-d14	77

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/25/98
Date

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CARDINAL LABORATORIES, INC.

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101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	Dowell Schlumberger	BILL TO	PO #:
Project Manager:	Darwin Thompson	Company:	
Address:	PO Box 640	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	391 3006	City:	
Fax #:	393 7629	State: Zip:	
Project #:	Project Owner:	Phone #:	
Project Name:	Annual analysis	Fax #:	
Project Location:	Hobbs		

FOR LAB USE ONLY				MATRIX							PRES.			SAMPLING		ANALYSIS REQUEST											
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	TCLP VOL	TCLP Semi VOL	TCLP metals	MCI	Oil & grease	TPH							
H3475-1	wash bay mud	G	2										2-19-98	1500	✓	✓	✓	✓		✓							
-2	wash bay water	G	2												✓	✓	✓	✓	✓								
-3	used oil	G	2												✓	✓	✓	✓									
-4	parts solvent	G	2												✓	✓	✓	✓									
-5	antifreeze	G	2												✓	✓	✓	✓									
-6	floor sweep	G	2												✓	✓	✓	✓		✓							

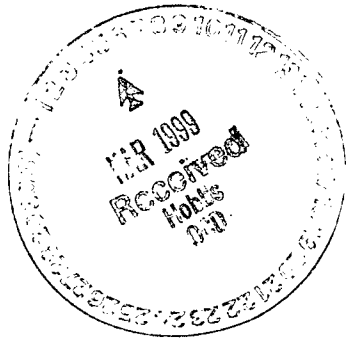
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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No Additional Fax #:
Darwin Thompson	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date: 2/19/98	Received By: (Lab Staff)	REMARKS:
	Time: 1445	Burgess R Cooke	
Delivered By: (Circle One)	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

From: Darwin Thompson To: CRI
Date: 7/24/98 Time: 10:43:06 AM
Page 4 of 6


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P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 15 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/
Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator **Weatherford**
	5. Originating Site **Odessa Pipe Plant**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Malco**
3. Address of Facility Operator **8870 W. Loop 338 Odessa**	8. State **Texas**
7. Location of Material (Street Address or ULSTR)	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Odessa Pipe Plant. The material was generated from the hydroblasting of oilfield pipe. This material has been approved in the past. I have included a Certificate of Waste, Texas Waste Code and chain of custody.

003-001

Estimated Volume **120 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh Waste Management Facility Authorized Agent TITLE: **Manager** DATE: **3-3-99**

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Montgomery J Kelly TITLE: Env. Geologist DATE: 3-15-99


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CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford Inc.

ADDRESS 8870 West Loop 338 (~~Pipe Plant~~) Odessa Tx. 79763

GENERATING SITE 8870 West Loop 338 (Pipe Plant) Odessa Tx. 79763

COUNTY Ector STATE Texas

TYPE OF WASTE Sludge and waste water

ESTIMATED VOLUME 120 bbls. (5040 gallons)

GENERATING PROCESS This waste was generated from hydroblasting of oilfield pipe.

REMARKS This waste is from the West Loop (Pipe Plant) Facility.

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Malco Trans.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT ~~James Schoen~~
SIGNATURE

NAME ~~James Schoen~~ Weatherford
PRINTED

ADDRESS 8870 West Loop 338

Odessa (Pipe Plant) Tx. 79763

DATE 3-2-99


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XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

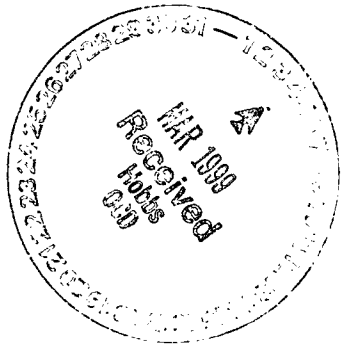
Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth:	171634-001 SP					
Ignit./F.P. Analyzed by EPA 1010		Date Analyzed - Analytical Results deg. F					
		Jul 22, 1997					
Ignitability, Pensky-Martens		> 180					
TCLP Metals Analyzed by EPA1311/6010		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 18, 1997					
Arsenic		< 0.5					
Barium		1.3					
Cadmium		< 0.10					
Chromium		< 0.5					
Lead		< 0.5					
Silver		< 0.08					
Selenium		< 0.4					
TCLP Mercury Analyzed by EPA 7470		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Mercury		< 0.022					
Cyanide RCI Analyzed by SW846 7.3.3		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Cyanide		< 0.5					
Sulfide RCI Analyzed by SW846 7.3.4		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Sulfide		< 0.5					
pH Analyzed by EPA 9045		Date Analyzed - Analytical Results S.U.					
		Jul 18, 1997					
pH, Electrometric		7.30					
TCLP S.V. Analyzed by EPA 8270		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 21, 1997					

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Edward T. Yonemoto, Ph.D
QA/QC Manager


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CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

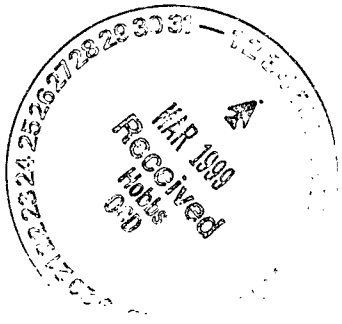
Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth: 171634-001 SP
1,4-Dichlorobenzene	< 0.513
2,4-Dinitrotoluene	< 0.051
Hexachlorobenzene	< 0.043
Hexachlorobutadiene	< 0.205
Hexachloroethane	< 0.513
2-Methylphenol	< 5.128
3-Methylphenol	< 5.128
4-Methylphenol	< 5.128
Nitrobenzene	< 0.513
Pentachlorophenol	< 5.128
Pyridine	< 0.513
2,4,5-Trichlorophenol	< 5.128
2,4,6-Trichlorophenol	< 0.513

TCLP Vol. Analyzed by EPA1311/8260	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)
	Jul 22, 1997
Benzene	< 0.05
2-Butanone	< 4.00
Carbon Tetrachloride	< 0.05
Chloroform	< 0.25
1,2-Dichloroethane	< 0.05
1,1-Dichloroethene	< 0.05
Tetrachloroethene	< 0.05
Trichloroethene	< 0.05
Vinyl chloride	< 0.025
Chlorobenzene	< 2.00

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Edward T. Yonemoto, Ph.D.
QA/QC Manager


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CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	*Lab ID:*	171634-001					
	Field ID:	SP					
	Depth:						
	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
TPH Analyzed by EPA 418.1		Jul 21, 1997					
Total Petroleum Hydrocarbons		10300					

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Edward H. Yonemoto, Ph.
QA/QC Manager


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XENCO Laboratories

7381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab Batch # 171634-H

Contractor: Nickell Environmental Phone: (915) 520-4100

Address: 19 Barry Rd Midland TX 797

Project Name: Sump disposal Project Director: Terry James

Project Location: Pipe Plant WLP Project Manager: Robbie Walker

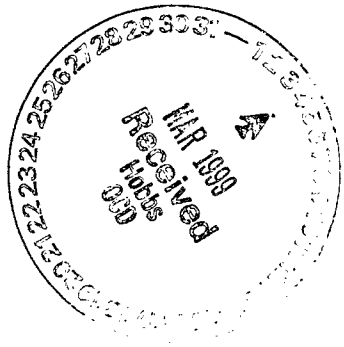
Sampler Signature: Robbie Walker Project No: WEA116-0000 Pipe Plant

No. coolers this shipment: Contractor COC #

Carrier: FedEx Quote #:

Airbill No: 147701793 1 P.O. No:

| Lab ID # | Field ID | Date | Time | Depth | Soil | Water | Comp | Grab | Container Size | Container Type P, G | Preservative: Ice | Preservative: Other | Sample Description | BTEX 8020/8021 | TPH 418.1 | TCLP Metals | RCI | TCLP VOA | TCLP SVOA | Pesticides | Herbicides | Pesticides/Herbicides | Pesticides/Herbicides | Pesticides/


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5327 Weatherford U.S., Inc.

*** WASTE DESCRIPTION ***

Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
Code						

*** Active Wastes ***

0010307 Active 01/26/93 Off No
Description from Generator: Pipe scale, scraping of pipe used in the oil and gas industry/ ongoing process.
Form Code: 107 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

00110951 1 Active 01/26/94 Off No
Description from Generator: Sump material /tools are steam cleaned and washed to remove lubricants, dirt, paint, scale, and corrosion products/August 1993.
Form Code: 595 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

60012030H.H Active 08/05/94 Off No No
Description from Generator: Spent solvents (mineral spirits/varsol). Oil field related equipment, tools and parts are rinsed in solvent to removed grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and silt debris parts washing.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D001 D006 D008 D018 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Spent Solvent - Parts Wash

60022020H.H Active 08/05/94 Off No
Description from Generator: Spent immersion cleaner/cold cleaner. Oil field related equipment, tools, parts, and pipe are cleaned in immersion cleaner to remove grease and debris during servicing. Waste is a mixture of heavy aromatic Naptha, oil, Monoethanolamine, grease and silt debris.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D006 D008 D018 D021 D027 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Immersion Cleaner

60032051 1 Active 08/05/94 Off No
Description from Generator: Oil-water emulsion and mixture from oil field equipment servicing. Oil field hydraulic equipment, pipe, and tools are cleaned and reconditioned. Oil, grease, and wash water collect in sump. Waste is mixture of oil and water. Non-hazardous.
Form Code: 205 Oil-water emulsion or mixture
Current Management Units: None
* Origin Codes: 1 Onsite-process/service


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5227 Weatherford U.S., Inc.

exas Waste ode	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

**** Active Wastes ****

Company's Internal Code(s): Sump Waste - Liquid

50455012 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, lumber, plastic, paper packing material, plastic packing material, styrofoam, glass, aluminum foil. Does not include metal parts, floor sweepings or scrap metals. Generating process is general non hazardous maintenance.

Form Code: 901 Plant production refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Plant Refuse

50053032 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, cardboard, linings, wrappings, paper, wood or plastic wrappings, food wastes, glass, aluminum foil, aluminum cans, plastics, styrofoam, food packings, empty shipping cartons, binders. Process generating is from general office operations.

Form Code: 903 Plant Office refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Office Refuse

50063101 1 Active 08/05/94 Off No

Description from Generator: Used oil filters from vehicle and equipment maintenance. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

50072061 1 Active 08/05/94 Off No

Description from Generator: Used motor oil and used hydraulic oil from vehicle and equipment maintenance. to be sent to oil recycler. Non-hazardous.

Form Code: 206 Waste oil

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

50083101 1 Active 08/05/94 Off No

Description from Generator: Used paint filters from spray paint application equipment used in painting oil field tools and equipment. Filters have been dried. There are no liquids present. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service


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5327 Weatherford U.S., Inc.

Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
ode						

***** Active Wastes *****

0092091 1 Active 08/05/94 Off No
Description from Generator: Paint waste, oil based, liquid containing paint thinner of mineral spirits/Varsol. Generating process is from painting oil field tools and equipment, general maintenance. Ignitable.
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60[illegible]91 1 Active 08/05/94 Off No
Description from Generator: Waste paint, water based. Process generating is from paint parts, tools and equipment - general maintenance.
Form Code: 209 Organic paint, ink, lacquer, or varnish
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60114091 1 Active 08/05/94 Off No
Description from Generator: Paint waste solids from clean up of paint booth overspray, floor scrappings and wood with overspray. Generating process is from painting oil field tools and equipment.
Form Code: 409 Other non-halogenated organic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60122111 1 Active 08/05/94 Off No
Description from Generator: Spent waste paint thinner used in thinning paint, cleaning paint equipment and general maintenance for paint preparation activities of oil field tools and eqiipment. Contains mineral spirits/Varsol/VM&P Naptha. Ignitable.
Form Code: 211 Paint thinner or petroleum distillates
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60133191 1 Active 08/05/94 Off No
Description from Generator: Pipe scale solids, including rust, drilling mud and dry oil. Generated during the cleaning and reconditioning of oil field drilling pipe. Non-hazardous.
Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service


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75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
**** Active Wastes ****						

60113091 H Active 08/05/94 Off No
Description from Generator: Used lead batteries, or battery parts, casings or cores. Process generating is "out of service" batteries from facility vehicles and equipment maintenance. To be sent to battery recycler. Hazardous.
Form Code: 309 Batteries or battery parts, casings, cores
EPA Hazardous Waste Numbers: D002 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A55 Filter/Battery replacement
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7349 Building Maintenance Services, NEC

60[illegible]01 1 Active 08/05/94 Off No
Description from Generator: Oil absorbants, rags and pads from general clean up and maintenance activities. For cleaning minor releases of oil from maintenance and repair of equipment. Waste is generally a mixture of non-biodegradable absorbent granules, rags & pads impregnated with oil. Non-hazardous.
Form Code: 310 Spent solid filters or absorbents (inorganic)
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60163081 1 Active 08/05/94 Off No
Description from Generator: Empty metal drums and empty metal containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 308 Empty or crushed metal drums or containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

50174061 1 Active 08/05/94 Off No
Description from Generator: Empty fiber or plastic containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 406 Empty fiber or plastic containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60182961 1 Active 08/05/94 Off No
Description from Generator: Waste glycol based antifreeze/coolant. Removed from facility vehicles and equipment during service and repair. Non-hazardous.
Form Code: 296 Ethylene glycol based antifreeze
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60196951 1 Active 05/18/95 Off No
Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned & washed to remove lubricant, dirt, paint, scale & corrosion. Liquids are removed & sludge remains.
Form Code: 595 Petro contam sldy not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump sludge


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327 Weatherford U.S., Inc.

Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
***** Active Wastes *****						
0203071 1		Active	08/05/94	Off		No

Description from Generator: Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Scrap metal

0219022 2 Active 08/05/94 Off No
Description from Generator: Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.
Form Code: 902 Supplemental plant production refuse
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

0222191 1 Active 08/05/94 Off No
Description from Generator: Oil based machine coolant/water soluable. Liquid. Spent coolant from machining process of tooling, cutting and grooving. Non-hazardous.
Form Code: 219 Other organic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

0234491 1 Active 09/18/95 Off No
Description from Generator: Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of drippings from application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

0242058 H Active 08/05/94 Off No
Description from Generator: Paint waste, liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC


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5327 Weatherford U.S., Inc.

Area Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
**** Active Wastes ****						

0253110H H Active 08/05/94 Off No
Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous.1
Form Code: 310 Spent solid filters or adsorbents (inorganic)
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes:
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Co Y's Internal Code(s): Paint filters/hazardous

0253191 1 Active 08/05/94 Off No
Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

0283191 1 Active 12/28/94 Off No
Description from Generator: Used tires removed from trucks & equipment. Tires are no longer in service & are sent to tire recycler.
Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

6029203H H Active 09/18/95 Off No No
Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between use. Waste includes paint aerosol cans with residual paint & propellant
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

6030489I 1 Active 09/18/95 Off No
Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Waste includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service


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(5127 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	THROC Audit Complete
** Active Wastes **						
0311093H	H	Active	09/18/95	Off	No	No

Description from Generator: Spent caustic solution used for stripping paint & grease from oil field rental tools during cleaning process. Waste includes mixed solution of water, sodium hydroxide, oil, grease & paint.
Form Code: 109 Spent caustic
EPA Hazardous Waste Numbers: D002 D006 D007 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A01 Caustic (Alkali) cleaning
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found

99000	H	Active		Off	No

ption from Generator: D001 CHARACTERISTIC OF IGNITABILITY
Form Code:
EPA Hazardous Waste Numbers: D018 D039
Current Management Units: None
* Origin Codes:

* The first value is considered the primary value (e.g. primary origin code).
As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

** No Longer Generated Wastes **

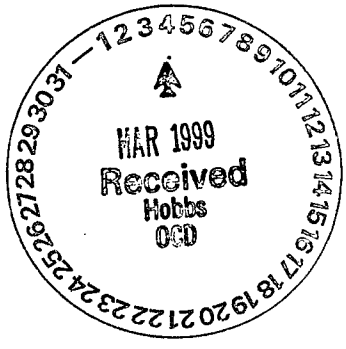
00196951	1	Inactive	09/18/95	DA	No	No

Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned and washed to remove lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump Sludge

00214891	1	Inactive	09/18/95	DA	No	No

Description from Generator: Pipe coating. Non hazardous. Pipe coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of the drippings from the application process are collected for disposal.
Form Code: 469 Petroleum contaminated solids
Current Management Units: None.
Origin Codes: 1 Onsite-process/service
by's Internal Code(s): Pipe coatings/drippings

As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
MAR 1999
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P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 31 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/
Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Weatherford**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Odessa**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **Henderson Environmental**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **1848 Mercury, Odessa, TX 79763**	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Enterra- Mercury Ave., Odessa location. The waste water and sludge was generated from washing/steam cleaning oil field tools. Attached are copies of the certificate of waste, analytical data and chain of custody.

02-003

Estimated Volume **300 bbls.** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: **Manager** DATE: **2-25-99**
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **505-393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: Env. Geologist DATE: 3-1-99



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Weatherford Enterra

ADRESS 1848 Mercury Ave., Odessa, TX 79763

GENERATING SITE 1848 Mercury Ave., Odessa, TX 79763

COUNTY Ector STATE TX

TYPE OF WASTE Waste water and sludge

ESTIMATED VOLUME 300 bbls. (12,600 gallons)

GENERATING PROCESS Steam cleaning of oil field tools.

REMARKS

NMOCD FACILITY **CONTROLLED RECOVERY INC.**

TRUCKING COMPANY Henderson Environmental (806) 744-6278

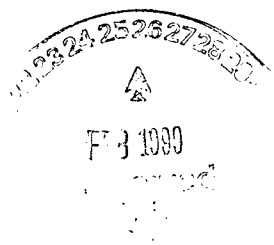
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my Knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR. Part 261. Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40CFR. Section 2613.

AGENT Melinda Beggs
SIGNATURE

NAME Melinda Beggs
PRINTED

ADDRESS 1031 Andrews Hwy., Ste 207B
Midland, Texas 79701

DATE February 23, 1999


FEB 1999

TRACE ANALYSIS, INC.

5101 Abeldeen Avenue, Suite 9 Lubbock, Texas 79424 (806) 794-1296 (806) 794-1296 FAX (806) 794-1298
4725 Ripley Avenue, Suite 9 El Paso, Texas 79922 (915) 585-3443 (915) 585-3443 FAX (915) 585-4944
E-Mail: info@traceanalysis.com

ANALYTICAL RESULTS FOR

LLANO - PERMIAN ENVIRONMENTAL
Attention: Terry Jarres
1031 Andrews Hwy, Suite 115
Midland, TX 79701

February 10, 1999
Receiving Date: 01/28/99
Sample Type: Sludge
Project No: N/A
Project Location: Mercury Ave., Odessa

Sampling Date: 01/26/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Sump Sample

TCLP METALS

TA#	Field Code	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T117734	SUMP 1	<0.10	<0.10	<0.05	<0.20	<0.10	<0.10	0.49	<0.010
ICV		0.90	0.97	0.90	0.95	0.92	0.19	0.92	0.0051
CCV		0.99	1.0	0.96	0.97	0.94	0.19	0.91	0.0048
Reporting Limit		0.10	0.10	0.05	0.20	0.10	0.10	0.10	0.010
RPD		5	5	11	5	5	5	0	0
% Extraction Accuracy		92	100	85	95	95	90	90	100
% Instrument Accuracy		95	98	94	96	96	93	91	100
Prep Date:		02/03/99	02/03/99	02/03/99	02/03/99	02/03/99	02/03/99	02/03/99	02/03/99
Analysis Date:		02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/04/99

METHODS: EPA 846-1311, 6010B, 7470A
CHEMIST: TCLP METALS: RR Hg: BP
TCLP METAL SPIKE: Ag: 40 mg/L As, Ba, Cd, Cr, Pb, Se: 2.0 mg/L Hg SPIKE: 0.050 mg/L
TCLP METAL CV: Ag: 0.20 mg/L As, Ba, Cd, Cr, Pb, Se: 1.0 mg/L Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

2-10-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Piedras Drive East, Suite A El Paso, Texas 79905 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

February 10, 1999
Receiving Date: 01/28/99
Sample Type: Sludge
Project No: N/A
Project Location: Mercury Ave., Odessa

ANALYTICAL RESULTS FOR
LLANO - PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy, Suite 115
Midland, TX 79701

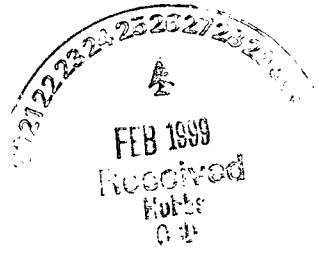
Analysis Date: 02/02/99
Sampling Date: 01/26/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Sump Sample

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY TO STEEL (mm/yr)	pH (s.u.)	FLASHPOINT (F)
	EPA LIMIT =	---	500	250	>6.5 mm/yr	<2 >12.5	>140 F
T117734	SUMP 1	Non-reactive	<10	<2.5	(0.89) non	7.7	>150 F non
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7.7.3, Chapter 7.7.2, Chapter 7.7.1.
CHEMIST: CS

Director, Dr. Blair Leftwich

2-10-99
DATE


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TRACEANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Piedras Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, TX 79701

February 10, 1999
Receiving Date: 01/28/99
Sample Type: Sludge
Project No: N/A
Project Location: Mercury Ave., Odessa

Extraction Date: 02/02/99
Analysis Date: 02/04/99
Sampling Date: 01/26/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Sump Sample

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T117734 Sump 1 Conc.	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	108	40*	35*	108
1,1-Dichloroethene	0.70	0.05	ND	99	0*	0*	99
Methyl Ethyl Ketone	200.0	0.5	ND	88	7	94	88
Chloroform	6.00	0.05	ND	95	1	100	95
1,2-Dichloroethane	0.50	0.05	ND	89	1	98	89
Benzene	0.50	0.05	ND	100	2	96	100
Carbon Tetrachloride	0.50	0.05	ND	109	1	110	109
Trichloroethene	0.50	0.05	ND	102	2	97	102
Tetrachloroethene	0.70	0.05	ND	108	2	109	108
Chlorobenzene	100.00	0.05	ND	103	1	104	103
1,4-Dichlorobenzene	7.50	0.05	ND	106	1	106	106

SURROGATES	% Recovery
Dibromofluoromethane	100
Toluene-d8	98
4-Bromofluorobenzene	94

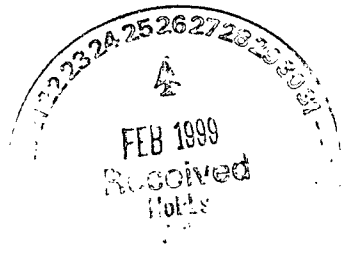
*Spike recovery low.

ND = Not Detected

METHODS: EPA SW 846-1311, 8260
CHEMIST: JS

Director, Dr. Blair Leftwich

2-10-99
DATE


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Received

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4775 Ripley Avenue Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, TX 79701

February 10, 1999
Receiving Date: 01/28/99
Sample Type: Sludge
Project No: N/A
Project Location: Mercury Ave., Odessa

Extraction Date: 02/02/99
Analysis Date: 02/03/99
Sampling Date: 01/26/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Sump Sample

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T117734 Sump 1	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	64	4	55	80
1,4-Dichlorobenzene	7.5	0.05	ND	82	13	66	103
o-Cresol	200.0	0.05	ND	84	12	80	105
m,p-Cresol	200.0	0.05	ND	87	14	162	109
Hexachloroethane	3.0	0.05	ND	84	13	71	105
Nitrobenzene	2.0	0.05	ND	84	14	83	105
Hexachlorobutadiene	0.5	0.05	ND	89	12	82	111
2,4,6-Trichlorophenol	2.0	0.05	ND	89	12	96	111
2,4,5-Trichlorophenol	400.0	0.05	ND	86	10	100	108
2,4-Dinitrotoluene	0.13	0.05	ND	90	13	93	112
2,4-D	10.0	0.05	ND	95	8	125	119
Hexachlorobenzene	0.13	0.05	ND	80	15	100	100
2,4,5-TP	1.0	0.05	ND	94	10	111	118
Pentachlorophenol	100.0	0.05	ND	83	14	110	104

Surrogates	% RECOVERY
2-Fluorophenol	47
Phenol-d6	46
Nitrobenzene-d5	82
2-Fluorobiphenyl	85
2,4,6-Tribromophenol	109
Terphenyl-d14	100

ND - Not Detected

Methods: EPA SW 846-8311, 8270
CHEMIST: DG

Director, Dr. Blair Leftwich

2-10-99
Date


FEB 1999

TRACEANALYSIS, INC.
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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Llano Permian Environmental
Attention Terry James
1031 Andrews Hwy, Ste. 207
Midland Tx. 79701

Date: Feb 04, 1999
Date Rec: 1/28/99
Project: N/A
Proj Name: Sump Sample
Proj Loc: Mercury Ave. Odessa, Tx.

Lab Receiving #: 9901078944
Sampling Date: 1/26/99
Sample Condition: Intact and Cool
Sample Received By: JW

TA#	Field Code	MATRIX	C6-C10 (mg/Kg)	>C10 C28 (mg/Kg)	C6-C28 (mg/Kg)
117774	Sump 1	Sludge	63	3,530	3,590
Method Blank			<50	<50	<50
Reporting Limit			50	50	50
QC			291	268	559

RPD	7	4	6
% Extraction Accuracy	110	107	109
% Instrument Accuracy	118	107	113

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: mg/Kg
TX1005	N/A	1/28/99	TX1005	1/29/99	MF	250 each	250 each

Director, Jr. Blair Leftwich

2-3-99
Date


FEB 1998

TraceAnalysis, Inc.

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

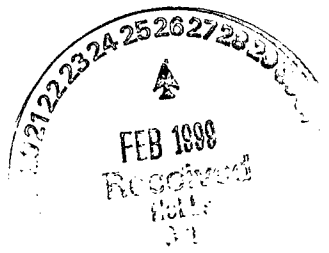
Project Manager: Cliff James
Phone #: 915/522-2133
FAX #: 915/522-2181
Company Name & Address: Hans Perman 1031 Andrews Hwy. Ste 115
Project #:
Project Name: Tri Sump Sample
Project Location: Mercury Pipeline
Sampler Signature: Melinda Begg

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX, MTBE	TPH	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	8240 / 8260	8270	SPECIAL HANDLING: Turn around # of days	Fax ASAP	Hold
11734	Sump 1	1	qt				✓			✓	✓	1-26-99	1735		✓		✓	✓	✓	✓					

Relinquished by: Melinda Begg 1-27-99 1130am
Received by: Helen Shelton 1/27/99 11:30AM
Relinquished by: Helen Shelton 1-27-99 6:30PM
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Vicki Windham 1-28-99 9:30a

REMARKS

1 2/10
4" Bus 1526107770
Rushed Greyhound 1 sample - HS


FEB 1998

75327 Weatherford U.S., Inc.

Solid Waste Registration Number: 75327 EPA Id: TXD988025755

Company Name: Weatherford U.S., Inc.
Site Name: Odessa-Tool
Site Location: 8870 N Loop 338 N, Odessa, TX
Contact: Johnson, Mike ?

Region: 7 Initial Registration Date: 05/06/1991
County: 68 Ector Last Amendment Date: 09/18/1995
Last Date NOR Computer update: 06/19/1996
Title: Location Manager Phone: 915-550-9297

Mailing Address: P. O. Drawer-112
Odessa, TX 79760-0112

Site Street Address: 8870 N Loop 338 N
Odessa, TX 79764-

Registration Status: Active
Registration Type: Generator
Generator Type: Non-industrial and/or municipal

Reporting Method: STEERS

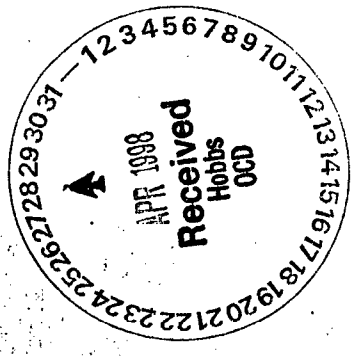
Hazardous Waste Generation Status: Small Quantity Generator

Primary SIC Code: 1389 Oil & Gas Field Services, Not Elsewhere Found
Handler Status:

Operator Information
Name:
Phone:
Address:

Owner Information
Name: Weatherford U.S., Inc.
Phone:
Address: P.O. Box 27608
Suite 1C00
Houston, TX. 77227-7608

As of 09/18/1995 - the next unassigned sequence number for WASTES is 6032 and the next unassigned sequence number for UNITS is 001.



75327 Weatherford U.S., Inc.

**** WASTE INFORMATION ****

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
***** Active Wastes *****						
00103071 1		Active	01/26/94	Off		No

Description from Generator: Pipe scale, scraping of pipe used in the oil and gas industry/ ongoing process.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

00116951 1 Active 01/26/94 Off No

Description from Generator: Sump material /tools are steam cleaned and washed to remove lubricant, dirt, paint, scale, and corrosion products/August 1993.
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

60C1203H H Active 08/05/94 Off No No

Description from Generator: Spent solvents (mineral spirits/varsol). Oil field related equipment, tools and parts are rinsed in solvent to removed grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and silt debris parts washing.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D001 D006 D008 D018 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Spent Solvent - Parts Wash

6002203H H Active 08/05/94 Off No

Description from Generator: Spent immersion cleaner/cold cleaner. Oil field related equipment, tools, parts, and pipe are cleaned in immersion cleaner to remove grease and debris during servicing. Waste is a mixture of heavy aromatic Naptha, oil, Monoethanolamine, grease and silt debris.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D006 D008 D018 D021 D027 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Immersion Cleaner

60032051 1 Active 08/05/94 Off No

Description from Generator: Oil-water emulsion and mixture from oil field equipment servicing. Oil field hydraulic equipment, pipe, and tools are cleaned and reconditioned. Oil, grease, and wash water collect in sump. Waste is mixture of oil and water. Non-hazardous.
Form Code: 205 Oil-water emulsion or mixture
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

Received
Hobbs
OCD
FEB 1998

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

***** Active Wastes *****

Company's Internal Code(s): Sump Waste - Liquid

60045012 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, lumber, plastic, paper packing material, plastic packing material, styrofoam, glass, aluminum foil. Does not include metal parts, floor sweepings or scrap metals. Generating process is general non hazardous maintenance.

Form Code: 901 Plant production refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Plant Refuse

60059032 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, cardboard, linings, wrappings, paper, wood or plastic wrappings, food wastes, glass, aluminum foil, aluminum cans, plastics, styrofoam, food packings, empty shipping cartons, binders. Process generating is from general office operations.

Form Code: 903 Plant Office refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Office Refuse

60063102 1 Active 08/05/94 Off No

Description from Generator: Used oil filters from vehicle and equipment maintenance. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60072061 1 Active 08/05/94 Off No

Description from Generator: Used motor oil and used hydraulic oil from vehicle and equipment maintenance. to be sent to oil recycler. Non-hazardous.

Form Code: 206 Waste oil

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60083101 1 Active 08/05/94 Off No

Description from Generator: Used paint filters from spray paint application equipment used in painting oil field tools and equipment. Filters have been dried. There are no liquids present. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Received
FEB 1998
Hobbs
OCD

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

****** Active Wastes ******

60092091H H Active 08/05/94 Off No
Description from Generator: Paint waste, oil based, liquid containing paint thinner of mineral spirits/Varsol. Generating process is from painting oil field tools and equipment, general maintenance. Ignitable.
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60102091 1 Active 08/05/94 Off No
Description from Generator: Waste paint, water based. Process generating is from paint parts, tools and equipment - general maintenance.
Form Code: 209 Organic paint, ink, lacquer, or varnish
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60114091 1 Active 08/05/94 Off No
Description from Generator: Paint waste solids from clean up of paint booth overspray, floor scrappings and wood with overspray. Generating process is from painting oil field tools and equipment.
Form Code: 609 Other non-halogenated organic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60122111H H Active 08/05/94 Off No
Description from Generator: Spent waste paint thinner used in thinning paint, cleaning paint equipment and general maintenance for paint preparation activities of oil field tools and equipment. Contains mineral spirits/Varsol/VM&P Naptha. Ignitable.
Form Code: 211 Paint thinner or petroleum distillates
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60133191 1 Active 08/05/94 Off No
Description from Generator: Pipe scale solids, including rust, drilling mud and dry oil. Generated during the cleaning and reconditioning of oil field drilling pipe. Non-hazardous.
Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

Received
Hobbs
OCD
APR 1998

75337 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

****** Active Wastes ******

60143091 1 Active 08/05/94 Off No
Description from Generator: Used lead batteries, or battery parts, casings or cores. Process generating is "out of service" batteries from facility vehicles and equipment maintenance. To be sent to battery recycler. Hazardous.
Form Code: 309 Batteries or battery parts, casings, cores
EPA Hazardous Waste Numbers: D002 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A55 Filter/Battery replacement
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7349 Building Maintenance Services, NEC

60153101 1 Active 08/05/94 Off No
Description from Generator: Oil absorbants, rags and pads from general clean up and maintenance activities. For cleaning minor releases of oil from maintenance and repair of equipment. Waste is generally a mixture of non-biodegradable absorbent granules, rags & pads impregnated with oil. Non-hazardous.
Form Code: 310 Spent solid filters or absorbents (inorganic)
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60163081 1 Active 08/05/94 Off No
Description from Generator: Empty metal drums and empty metal containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 308 Empty or crushed metal drums or containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60174061 1 Active 08/05/94 Off No
Description from Generator: Empty fiber or plastic containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 406 Empty fiber or plastic containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60182961 1 Active 08/05/94 Off No
Description from Generator: Waste glycol based antifreeze/coolant. Removed from facility vehicles and equipment during service and repair. Non-hazardous.
Form Code: 296 Ethylene glycol based antifreeze
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60196951 1 Active 09/18/95 Off No
Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned & washed to remove lubricant, dirt, paint, scale & corrosion. Liquids are removed & sludge remains.
Form Code: 595 Petro contam sldy not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump sludge

Received
Hobbs
OCD
FEB 1998

75227 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
****** Active Wastes ******						
60203071 1		Active	08/05/94	Off		No

Description from Generator: Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Scrap metal

60219022 2 Active 08/05/94 Off No
Description from Generator: Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.
Form Code: 902 Supplemental plant production refuse
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60222191 1 Active 08/05/94 Off No
Description from Generator: Oil based machine coolant/water solvable. Liquid. Spent coolant from machining process of tooling, cutting and grooving. Non-hazardous.
Form Code: 219 Other organic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60234891 1 Active 09/18/95 Off No
Description from Generator: Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of drippings from application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

6024205H H Active 08/05/94 Off No
Description from Generator: Paint waste, liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

Received APR 1998 Hobbs OCD

Received Hobbs OCD

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***
Notice of Registration
Industrial and Hazardous Waste

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
****** Active Wastes ******						

60253101 H Active 08/05/94 Off No

Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous.1

Form Code: 310 Spent solid filters or adsorbents (inorganic)
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes:
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Paint filters/hazardous

60264891 1 Active 08/05/94 Off No

Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.

Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60283191 1 Active 12/28/94 Off No

Description from Generator: Used tires removed from trucks & equipment. Tires are no longer in service & are sent to tire recycler.

Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

6029209H H Active 09/18/95 Off No No

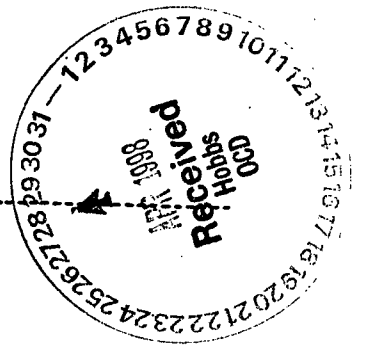
Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between use. Waste includes paint aerosol cans with residual paint & propellant

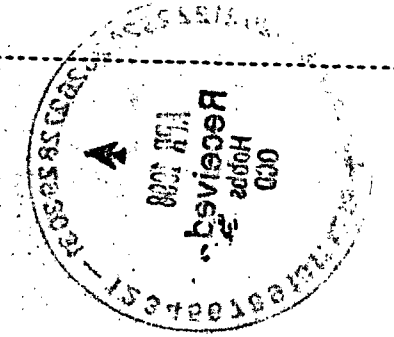
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60304891 1 Active 09/18/95 Off No

Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Wate includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.

Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service





75327 Weatherford U.S., Inc.
Texas Waste Code | Waste Class | Status | Date of Status | Managed Onsite/ Offsite | Radio-active | THROC Audit Complete

****** Active Wastes ******

60311091 H Active 09/18/95 Off No No
Description from Generator: Spent caustic solution used for stripping paint & grease from oil field rental tools during cleaning process. Waste includes mixed solution of water, sodium hydroxide, oil, grease & paint.
Form Code: 109 Spent caustic
EPA Hazardous Waste Numbers: D002 D006 D007 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A03 Caustic (Alkali) cleaning
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found

990001 H Active Off No
Description from Generator: D001 CHARACTERISTIC OF IGNITABILITY
Form Code:
EPA Hazardous Waste Numbers: D018 D039
Current Management Units: None
* Origin Codes:

* The first value is considered the primary value (e.g. primary origin code).
As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

** No Longer Generated Wastes **

99196951 1 Inactive 09/18/95 PA No No
Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned and washed to remove lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.
Form Code: 695 Petro contam sldg;not tk-ill bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump Sludge

00234891 1 Inactive 09/18/95 HA No No
Description from Generator: Pipe coating. Non hazardous. Pipe coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of the drippings from the application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None.
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Pipe coatings/drippings

As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

Received
Hobbs
OCD
FEB 10 1997

Received
OCD
Hobbs
JAN 1998

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
MAR 01 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropria
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Maclaskey
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 3000 W. Co. Rd.,	Hobbs, NM 88240

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Enterra Hobbs facility. The waste soil was generated from spills and leaks from equipment and machinery. Attached are copies of the certificate of waste, analytical data and chain of custody.

02-004

Estimated Volume 5 yds. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

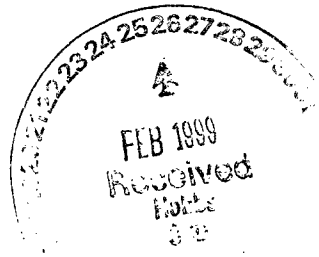
SIGNATURE: _____ TITLE: Manager DATE: 2-25-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kelly TITLE: Env Geologist DATE: 3-1-99


FEB 1999
Received

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR Weatherford Enterra

ADRESS 3000 West County Road, Hobbs, NM 88240

GENERATING SITE 3000 West County Road, Hobbs, NM 88240

COUNTY Lea STATE NM

TYPE OF WASTE Small spill soil composite

ESTIMATED VOLUME 5 yds

GENERATING PROCESS Small spill from machines and equipment.

REMARKS

NMOCD FACILITY **CONTROLLED RECOVERY INC.**

TRUCKING COMPANY Maclaskey Oil Field Service

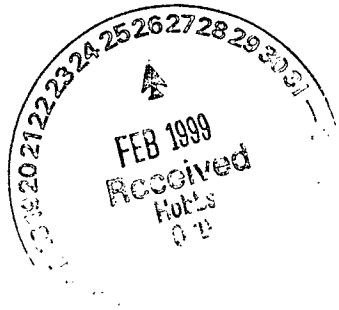
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my Knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40CFR, Section 2613.

AGENT Melinda Beggs
SIGNATURE

NAME Melinda Beggs
PRINTED

ADDRESS 1031 Andrews Hwy., Ste 207B
Midland, Texas 79701

DATE February 23, 1999


FEB 1999
Received

TRACEANALYSIS, INC.

6701 Aberdeen Avenue Suite 9 Lubbock Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
Llano Permian Environmental
Attention Terry James
1031 Andrews Hwy, Ste. 207
Midland Tx.79701

Date: Feb 09, 1999
Date Rec: 2/4/99
Project: WEA006CCL
Proj Name: Stockpile Composite
Proj Loc: Hobbs, NM

Lab Receiving # : 990204071
Sampling Date: 2/3/99
Sample Condition: Intact and Cool
Sample Received By: VW

TA#	Field Code	MATRIX	C6-C10 (mg/Kg)	>C10-C28 (mg/Kg)	C6-C28 (mg/Kg)
118267	Stockpile Composite	Soil	<50	1,970*	1,970
Method Blank			<50	<50	<50
Reporting Limit			50	50	50
QC			250	240	490

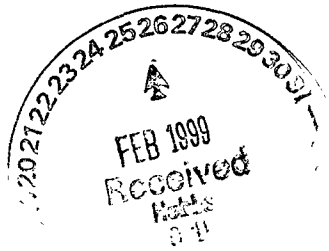
*Hydrocarbons greater than C28 present.

RPD	11	12	12
% Extraction Accuracy	100	96	98
% Instrument Accuracy	91	97	94

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC (mg/L)	SPIKE (mg/Kg)
TX1005	N/A	2/4/99	TX1005	2/6/99	NF	250 each	250 each

Director, Dr. Blair Leftwich

2-5-99
Date


FEB 1999
Received

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E-Mail: info@tracelab.com

ANALYTICAL RESULTS FOR
LLANO - PERMIAN ENVIRONMENTAL

February 16, 1999
Receiving Date: 02/04/99
Sample Type: Soil
Project No: WCA 006 GCI
Project Location: Hobbs, NM

Attention: Terry James
1031 Andrews Hwy Suite 115
Midland, TX 79701

Sampling Date: 02/03/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Stockpile Composite

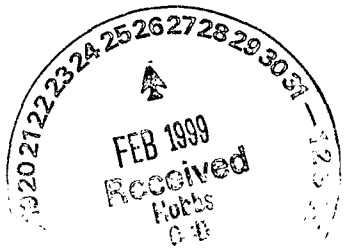
TCLP METALS

TA#	Field Code	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T118267	Stockpile Composite	<0.10	<0.10	<0.05	<0.20	<0.20	<0.10	0.56	<0.010
ICV		0.98	1.0	0.95	0.98	0.94	0.20	0.96	0.0051
CCV		0.90	0.98	0.92	0.94	0.91	0.19	0.91	0.0053
Reporting Limit		0.10	0.10	0.05	0.20	0.20	0.10	0.10	0.010
RPD		5	0	0	5	15	2	0	2
% Extraction Accuracy		95	100	95	105	95	98	95	90
% Instrument Accuracy		94	99	93	96	92	95	93	106
Prep Date:		02/07/99	02/07/99	02/07/99	02/07/99	02/07/99	02/07/99	02/07/99	02/09/99
Analysis Date:		02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/09/99	02/10/99

METHODS: EPA 846-1311, 6010B, 7470A
CHEMIST: TCLP METALS: RR Hg: BP
TCLP METAL SPIKE: Ag: 40 mg/L As, Ba, Cd, Cr, Pb, Se: 2.0 mg/L Hg SPIKE: 0.0050 mg/L
TCLP METAL CV: Ag: 0.20 mg/L As, Ba, Cd, Cr, Pb, Se 1.0 mg/L Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

2-16-99
Date


FEB 1999
Received
Hobbs
O.C.D.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

February 16, 1999
Receiving Date: 02/04/99
Sample Type: Solid
Project No: WEA.006 GCI
Project Location: Hobbs, NM

ANALYTICAL RESULTS FOR
LLANO - PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy Suite 115
Midland, TX 79701

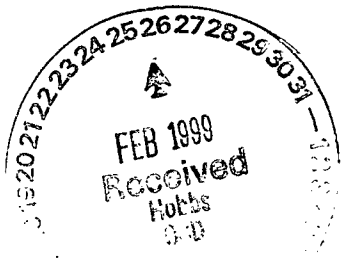
Analysis Date: 02/09/99
Sampling Date: 02/03/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Stockpile Composite

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250		<2 >12.5	
T118267	Stockpile Composite	Non-reactive	<10	<2.5	non	8.21	non
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7.7.3, Chapter 7.7.2, Chapter 7.7.1.
CHEMIST: CS

Director, Dr. Blair Leftwich

2-16-99
DATE


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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, TX 79701

February 16, 1999
Receiving Date: 02/04/99
Sample Type: Soil
Project No: WEA 006 GCI
Project Location: Hobbs, NM

Extraction Date: 02/13/99
Analysis Date: 02/14/99
Sampling Date: 02/03/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Stockpile Composite

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T118267 Stockpile Composite	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	98	4	98	98
1,1-Dichloroethene	0.70	0.05	ND	86	5	115	86
Methyl Ethyl Ketone	200.0	0.5	ND	99	9	119	99
Chloroform	6.00	0.05	ND	98	1	104	98
1,2-Dichloroethane	0.50	0.05	ND	95	1	103	95
Benzene	0.50	0.05	ND	100	2	104	100
Carbon Tetrachloride	0.50	0.05	ND	98	2	111	98
Trichloroethene	0.50	0.05	ND	102	2	104	102
Tetrachloroethene	0.70	0.05	ND	112	0	119	112
Chlorobenzene	100.00	0.05	ND	102	0	107	102
1,4-Dichlorobenzene	7.50	0.05	ND	111	0	112	111

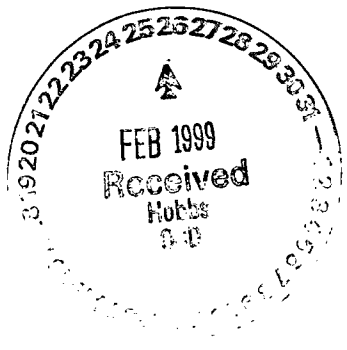
SURROGATES	% Recovery
Dibromofluoromethane	93
Toluene-d8	98
4-Bromofluorobenzene	99

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG

Director, Dr. Blair Leftwich

2-16-99
DATE


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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, TX 79701

February 16, 1999
Receiving Date: 02/04/99
Sample Type: Soil
Project No: WEA.006 GCI
Project Location: Hobbs, NM

Extraction Date: 02/09/99
Analysis Date: 02/10/99
Sampling Date: 02/03/99
Sample Condition: I & C
Sample Received by: VW
Project Name: Stockpile Composite

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T118267 Stockpile Composite	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	73	9	36	91
1,4-Dichlorobenzene	7.5	0.05	ND	80	8	54	100
o-Cresol	200.0	0.05	ND	74	0	56	93
m,p-Cresol	200.0	0.05	ND	77	1	52	95
Hexachloroethane	3.0	0.05	ND	83	9	57	104
Nitrobenzene	2.0	0.05	ND	67	3	60	84
Hexachlorobutadiene	0.5	0.05	ND	83	5	64	104
2,4,6-Trichlorophenol	2.0	0.05	ND	80	6	77	100
2,4,5-Trichlorophenol	400.0	0.05	ND	83	10	81	104
2,4-Dinitrotoluene	0.13	0.05	ND	83	7	72	104
2,4-D	10.0	0.05	ND	81	1	40	101
Hexachlorobenzene	0.13	0.05	ND	77	7	71	93
2,4,5-TP	1.0	0.05	ND	72	7	40	90
Pentachlorophenol	100.0	0.05	ND	88	7	85	111

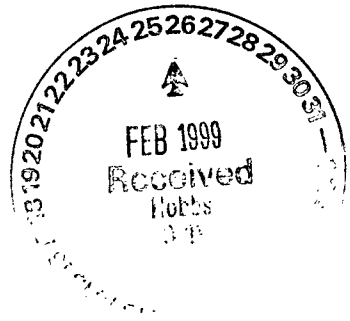
Surrogates	% RECOVERY
2-Fluorophenol	47
Phenol-d6	30
Nitrobenzene-d5	84
2-Fluorobiphenyl	89
2,4,6-Tribromophenol	98
Terphenyl-d14	82

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: SO

Director, Dr. Blair Leftwich

2-16-99
Date


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Received
Hobbs

118261

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUE

LAB Order ID # 71

Company Name: Llano-Permian
Phone #: 915/522-2133
Address: 1031 Andrews Hwy, Ste 15
Fax #: 915/522-2180
Contact Person: Terry James
Invoice to: (If different from above)
Project #: WEA 006 GCI
Project Name: Stockpile Composite
Project Location: Hobbs, NM
Sampler Signature: Melinda Bagg

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
118267	Stockpile Composite	2	80z		✓					✓	✓	2-3-99	155

MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard
		✓			✓	✓	✓	✓						

Relinquished by: Melinda Bagg Date: 2-4-99 Time: 930am
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Vicki Worsham 2-4-99 9130a Date: Time:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

LAB USE ONLY

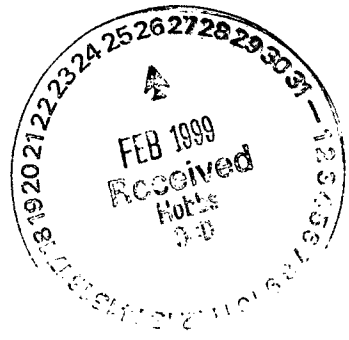
Intact (Y) / N
Headspace Y / N
Temp 3 °
Log-in Review

Carrier # Can Am

REMARKS:

2

PAGE 02 LP ENVIRONMENTAL 9155203844 02/25/1999 16:46


FEB 1999
Received
Hutts

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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FEB 23 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator **Bowen Tools**
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site **Hobbs Facility**
2. Management Facility Destination **Controlled Recovery, Inc.**	6. Transporter **CRI**
3. Address of Facility Operator **P. O. Box 388, Hobbs**	8. State **NM**
7. Location of Material (Street Address or ULSTR) **2623 Enterprise**	**Dr. Hobbs, NM**

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following information is from the Bowen Tools Hobbs facility. The material was generated by sump and washing fluids. This material has been approved in the past and I have included a certificate of waste and a chain of custody.

02-002

Estimated Volume **1000 gallons** cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: **Manager** DATE: **2-16-99**

TYPE OR PRINT NAME: **Ken Marsh** TELEPHONE NO. **(505) 393-1079**

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kelly TITLE: Env Geologist DATE: 2-23-99



CERTIFICATE OF WASTE STATUS
NON-EMEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Bowen Tools Inc,

ADDRESS 2623 Enterprise Dr. Hobbs, N.M.

GENERATING SITE Same

COUNTY Lea STATE N.M.

TYPE OF WASTE Wash Water & Sludge

ESTIMATED VOLUME 1000 Gallons

GENERATING PROCESS Sump & washing fluids

REMARKS

NMOCD FACILITY

TRUCKING COMPANY Un Known

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Alan Reder
SIGNATURE

NAME Alan Reder
PRINTED

ADDRESS 2623 Enterprise Dr.
Hobbs, N.M. 88240

DATE 2-16-99



CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BOWEN TOOLS, INC.
ATTN: ALAN REDER
2623 ENTERPRISE
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/04/98
Reporting Date: 03/10/98
Project Owner: BOWEN
Project Name: NOT GIVEN
Project Location: HOBBS, NM

Sampling Date: 03/04/98
Sample Type: SLUDGE (1), WASTEWATER (2)
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: GP/HM

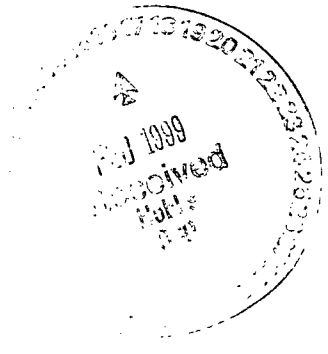
TCLP METALS

LAB NUMBEF	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		03/06/98	03/07/98	03/07/98	03/07/98	03/07/98	03/07/98	03/10/98	03/06/98
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3495-1	SUMP	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H3495-2	RECYCLED H2O	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	TANK								
Quality Control		0.221	5.042	10.16	1.998	5.708	4.838	0.0103	0.190
True Value QC		0.200	5.000	10.00	2.000	5.000	5.000	0.0100	0.200
% Recovery		110	101	102	100	114	96.8	103	95.0
Relative Standard Deviation		9.8	0.4	1.3	2.1	0.9	0.7	7.2	3.9
METHODS: EPA 1311, 600/4-91/		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Gayle A. Potter, Chemist

03/10/98
Date

PLEASE NOTE: **Liability and Damages**. **Cardinal's** liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BOWEN TOOLS, INC.
ATTN: ALAN REDER
2623 ENTERPRISE
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/04/98
Reporting Date: 03/10/98
Project Owner: BOWEN
Project Name: NOT GIVEN
Project Location: HOBBS, NM

Sampling Date: 03/04/98
Sample Type: SLUDGE (1), WASTEWATER (2)
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/10/98	03/10/98	03/10/98	03/10/98
H3495-1	SUMP	Not reactive	Not reactive	7.15	>140
H3495-2	RECYCLED H2O TANK	Not reactive	Not reactive	8.94	>140
Quality Control		NR	NR	7.06	NR
True Value QC		NR	NR	7.00	NR
% Accuracy		NR	NR	101	NR
Relative Percent Difference		NR	NR	0.4	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

3/10/98
Date

PLEASE NOTE: **Liability and Damages.** **Cardinal's** liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.


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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BOWEN TOOLS, INC.
ATTN: ALAN REDER
2623 ENTERPRISE
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/04/98
Reporting Date: 03/05/98
Project Owner: BOWEN
Project Name: NOT GIVEN
Project Location: HOBBS, NM
Lab Number: H3495-1
Sample ID: SUMP

Analysis Date: 03/05/98
Sampling Date: 03/04/98
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3495-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.108	108	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.113	113	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.108	108	0.100
Chloroform	6.0	0.025	<0.005	0.116	116	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.084	84	0.100
Benzene	0.5	<0.005	<0.005	0.101	101	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.103	103	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.113	113	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Chlorobenzene	100	<0.005	<0.005	0.109	109	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.118	118	0.100

	% RECOVERY
Dibromofluoromethane	102
Toluene-d8	94
Bromofluorobenzene	84

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

3/5/98
Date

PLEASE NOTE: **Liability and Damages.** **Cardinal's** liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.


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CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BOWEN TOOLS, INC.
ATTN: ALAN REDER
2623 ENTERPRISE
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/04/98
Reporting Date: 03/07/98
Project Owner: BOWEN
Project Name: NOT GIVEN
Project Location: HOBBS, NM
Lab Number: H3495-1
Sample ID: SUMP

Analysis Date: 03/06/98
Sampling Date: 03/04/98
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3495-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.050	0.028	28	0.100
1,4-Dichlorobenzene	7.50	<0.050	<0.050	0.052	52	0.100
o-Cresol	200	<0.050	<0.050	0.055	55	0.100
m, p-Cresol	200	<0.050	<0.050	0.115	58	0.200
Hexachloroethane	3.00	<0.050	<0.050	0.050	50	0.100
Nitrobenzene	2.00	<0.050	<0.050	0.079	79	0.100
Hexachloro-1,3-butadiene	0.500	<0.050	<0.050	0.063	63	0.100
2,4,6-Trichlorophenol	2.00	<0.050	<0.050	0.067	67	0.100
2,4,5-Trichlorophenol	400	<0.050	<0.050	0.072	72	0.100
2,4-Dinitrotoluene	0.130	<0.050	<0.050	0.106	106	0.100
Hexachlorobenzene	0.130	<0.050	<0.050	0.088	88	0.100
Pentachlorophenol	100	<0.050	<0.050	0.091	91	0.100

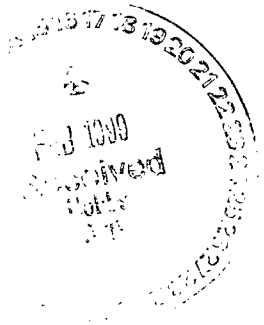
	% RECOVERY
Fluorophenol	26
Phenol-d5	24
Nitrobenzene-d5	62
2-Fluorobiphenyl	61
2,4,6-Tribromophenol	64
Terphenyl-d14	85

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

3/7/98
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BOWEN TOOLS, INC.
ATTN: ALAN REDER
2623 ENTERPRISE
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/04/98
Reporting Date: 03/07/98
Project Owner: BOWEN
Project Name: NOT GIVEN
Project Location: HOBBS, NM
Lab Number: H3495-2
Sample ID: RECYLED WATER TANK

Analysis Date: 03/06/98
Sampling Date: 03/04/98
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3495-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.050	0.028	28	0.100
1,4-Dichlorobenzene	7.50	<0.050	<0.050	0.052	52	0.100
o-Cresol	200	<0.050	<0.050	0.055	55	0.100
m, p-Cresol	200	<0.050	<0.050	0.115	58	0.200
Hexachloroethane	3.00	<0.050	<0.050	0.050	50	0.100
Nitrobenzene	2.00	<0.050	<0.050	0.079	79	0.100
Hexachloro-1,3-butadiene	0.500	<0.050	<0.050	0.063	63	0.100
2,4,6-Trichlorophenol	2.00	<0.050	<0.050	0.067	67	0.100
2,4,5-Trichlorophenol	400	<0.050	<0.050	0.072	72	0.100
2,4-Dinitrotoluene	0.130	<0.050	<0.050	0.106	106	0.100
Hexachlorobenzene	0.130	<0.050	<0.050	0.088	88	0.100
Pentachlorophenol	100	<0.050	<0.050	0.091	91	0.100

	% RECOVERY
Fluorophenol	53
Phenol-d5	46
Nitrobenzene-d5	80
2-Fluorobiphenyl	72
2,4,6-Tribromophenol	75
Terphenyl-d14	96

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

3/7/98
Date

PLEASE NOTE: **Liability and Damages.** **Cardinal's** liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by **Cardinal** within thirty (30) days after completion of the applicable service. In no event shall **Cardinal** be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by **Cardinal**, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.


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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BOWEN TOOLS, INC.
ATTN: ALAN REDER
2623 ENTERPRISE
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/04/98
Reporting Date: 03/05/98
Project Owner: BOWEN
Project Name: NOT GIVEN
Project Location: HOBBS, NM
Lab Number: H3495-2
Sample ID: RECYLED WATER TANK

Analysis Date: 03/05/98
Sampling Date: 03/04/98
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3495-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.108	108	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.113	113	0.100
Methyl Ethyl Ketone	200	0.247	<0.050	0.108	108	0.100
Chloroform	6.0	0.359	<0.005	0.116	116	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.084	84	0.100
Benzene	0.5	<0.005	<0.005	0.101	101	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.103	103	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.113	113	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Chlorobenzene	100	<0.005	<0.005	0.109	109	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.118	118	0.100

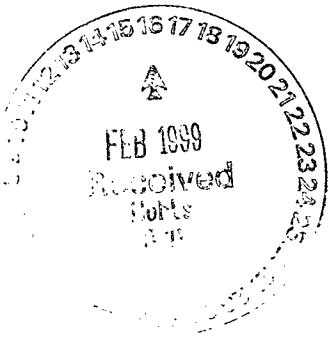
	% RECOVERY
Dibromofluoromethane	98
Toluene-d8	101
Bromofluorobenzene	94

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

3/5/98
Date

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CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020
101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name:	BOWEN TOOL	BILL TO	PO #:
Project Manager:	ALAN REDER	Company:	Bowen Tool
Address:	2623 ENTERPRISE	Attn:	Alan Reder
City:	HOBBS State: NM Zip:	Address:	P.O. Box 116
Phone #:		City:	Hobbs.
Fax #:		State:	NM Zip: 88241
Project #:	Project Owner: BOWEN	Phone #:	392 3541
Project Name:		Fax #:	392 3542
Project Location:			

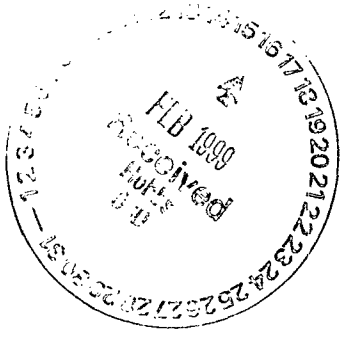
FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING		ANALYSIS REQUEST
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	DATE	TIME	TCLP Composite
-1	SUMP							✓					3/4/98	11:30	X
-2	RECYCLED												✓	✓	X
	WATER TANK														

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 03/04/98 Time: 11:40	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By: Alan Reder	Date: Time:	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No	CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.


HLB 1999
Received

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
FEB 17 1999
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8

Submit Orig
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs, NM 88241	8. State NM
7. Location of Material (Street Address or ULSTR) 3000 W. County Rd. Hobbs, NM	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is for the Weatherford Hobbs Facility's sump sludge. This material has been approved in the past. I have included a certificate of waste and a chain of custody.

02-001

Estimated Volume 50 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 2-16-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kelly TITLE: Env. Geologist DATE: 2-18-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford Enterra

ADDRESS 3000 W. County Rd., Hobbs, NM 88240

GENERATING SITE 3000 W. County Rd., Hobbs, NM 88240

COUNTY Lea STATE NM

TYPE OF WASTE Sump Sludge

ESTIMATED VOLUME 50 bbls.

GENERATING PROCESS Steam cleaning/ washing oil field tools

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Bill Martin
SIGNATURE

NAME Bill Martin
PRINTED

ADDRESS 3000 W. CountyRd.
Hobbs, NM 88240

DATE 2-15-99

1V 2365

Page 1 of 1

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 74

Company Name: Llano Permian Environmental Phone #: (915) 522-2133
Address: 1031 Andrews Hwy Midland, TX 79701 Fax #: (915) 522-2180
Contact Person: Rabbie Walker
Invoice to: (If different from above) Weatherford 3000 W. County Rd Hobbs NM
Project #: 101-010 Project Name: Yearly Sampling
Project Location: Hobbs NM Sampler Signature: Debra Walker

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
102365	S1	2	40 mL				X			X		9/7/98	9:30

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8020/602	BTEX 8020/602	TPH 418.1	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold
		X			X	X	X	X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Julie Rose	7/9/98	3:10PM	Helen Shelton	7/9/98	3:10 PM
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Helen Shelton	7/9/98	6:00PM			
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			[illegible]	7-10-98	10:00AM

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4 °
Log-in Review

REMARKS: 7/28/98

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 • Lubbock, Texas 79424 • 800•378•1296 • 806•794•1296 • FAX 806•794•1298
4725 Ripley Avenue, Suite A • El Paso, Texas 79922 • 888•588•3443 • 915•585•3443 • FAX 915•585•4944
E-Mail: lab@traceanalysis.com

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-010
Project Location: Hobbs, NM

ANALYTICAL RESULTS FOR:
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project/Site Name: Yearly Sampling

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T102365	S1	<0.10	<0.10	0.11	<0.05	0.13	<0.05	0.68	<0.010
ICV		1.0	1.0	0.99	0.98	0.99	0.20	1.0	0.055
CCV		1.0	1.0	1.0	1.0	0.98	0.20	1.0	0.050
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.05	0.10	<0.010
EXTRACTION DATE		07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/ 98
ANALYSIS DATE		07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/ 98
RPD		0	0	0	0	0	16	5	2
% Extraction Accuracy		95	100	95	95	95	108	105	98
% Instrument Accuracy		100	100	99	99	98	100	100	105

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba, RR Hg, SA/HC
METHODS: EPA SW 846-1311, 6010B, 7470
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 5.0 mg/L Ag; 0.050 mg/L Hg
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg

Director, Dr. Blair Leftwich

7-22-98
Date

TRACE ANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-010
Project Location: Hobbs NM

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

Extraction Date: 7/18/98
Analysis Date: 7/18/98
Sampling Date: 7/09/98
Sample Condition: I & C.
Sample Received by: VW
Project Name: Yearly Sampling

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	—
T102365	S1	Non-reactive	<10	<2.5	Non-corrosive	7.7	Nonignitable
QC	Quality Control	—	—	—	—	.	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		—	—	—	—	—	—

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

7-22-98
DATE

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Llano Permian Environmental
Attention Robbie Walker
1031 Andrews Hwy, Ste. 207
Midland Tx.79701

Date: Jul 15, 1998
Date Rec: 7/10/98
Project: 101-010
Proj Name: Yearly Sampling
Proj Loc: Hobbs, NM

Lab Receiving # : 9807000174
Sampling Date: 7/9/98
Sample Condition: Intact and Cool
Sample Received By: VW

TA#	Field Code	MATRIX	TRPHC (mg/Kg)
102365	S1	Sludge	1,586,000
	Method Blank		<10.0
	Reporting Limit		10
	QC		103
	RPD		4
	% Extraction Accuracy		110
	% Instrument Accuracy		103

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
TRPHC	EPA 3550	7/14/98	EPA 418.1	7/14/98	MS	100	250

Director, Dr. Blair Leftwich

7-15-98
Date

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

July 27, 1998
Receiving Date: 07/10/98
Sample Type: SLUDGE
Job Number: 101-010
Project Location: Hobbs, NM

Extraction Date: 07/21/98
Analysis Date: 07/22/98
Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Yearly Sampling

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T102365 S1	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.050	ND	118	2	87	118
1,1-Dichloroethene	0.70	0.050	ND	119	2	100	119
Methyl Ethyl Ketone	200.0	0.50	ND	83	1	116	83
Chloroform	6.00	0.050	ND	107	6	104	107
1,2-Dichloroethane	0.50	0.050	ND	107	7	91	107
Benzene	0.50	0.050	ND	110	2	106	110
Carbon Tetrachloride	0.50	0.050	ND	115	1	86	115
Trichloroethene	0.50	0.050	ND	117	2	110	117
Tetrachloroethene	0.70	0.050	ND	113	1	110	113
Chlorobenzene	100.00	0.050	ND	105	3	101	105
1,4-Dichlorobenzene	7.50	0.050	ND	110	1	109	110

SURROGATES	% Recovery
Dibromofluoromethane	83
Toluene-d8	88
4-Bromofluorobenzene	83

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: DG

Director, Dr. Blair Leftwich

7-27-98
DATE

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project #: 101-010
Project Location: Hobbs, NM

Extraction Date: 7/13/98
Analysis Date: 07/18/98
Sampling Date: 07/09/98
Sample Condition: I & C
Sample Received by: VW
Project Name: Yearly Samp

T102365

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	S1	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	68	5	36	75
1,4-Dichlorobenzene	7.5	0.05	ND	80	2	58	100
o-Cresol	200.0	0.05	ND	70	6	45	88
m,p-Cresol	200.0	0.05	ND	64	8	74	80
Hexachloroethane	3.0	0.05	ND	66	4	49	83
Nitrobenzene	2.0	0.05	ND	78	1	68	98
Hexachlorobutadiene	0.5	0.05	ND	87	1	59	109
2,4,6-Trichlorophenol	2.0	0.05	ND	82	116*	13**	103
2,4,5-Trichlorophenol	400.0	0.05	ND	86	84*	25**	108
2,4-Dinitrotoluene	0.13	0.05	ND	74	4	66	93
2,4-D	10.0	0.05	ND	91	1	72	114
Hexachlorobenzene	0.13	0.05	ND	80	2	59	100
2,4,5-TP	1.0	0.05	ND	93	6	63	116
Pentachlorophenol	100.0	0.05	ND	79	141*	4**	99

Surrogates	% RECOVERY
2-Fluorophenol	30
Phenol-d6	27
Nitrobenzene-d5	64
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	63
Terphenyl-d14	69

ND - Not Detected

***NOTE: RPD out of control limits due to concentration of sample.**
****EA limits out of control limit due to concentration of sample.**

Methods: EPA SW 846-1311, 8270.
CHEMIST: MB

7-27-98

Director, Dr. Blair Leftwich DATE

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
Originated 8

Submit Ori
Plus 1
to appro
District C

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Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobb	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley, Artesia	New Mexico

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the BJ Services Artesia Facility. The material was generated by washing service equipment. I have included a certificate of waste and a chain of custody. The material has been approved in the past.

01-003

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Oil Conservation Division

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: Manager DATE: 2-1-99

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kelly TITLE: Env. Geologist DATE: 2-4-99



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ Services Company

ADDRESS 2401 Sivley Artesia, NM 88210

GENERATING SITE Wash Bay Sump

COUNTY Eddy STATE NM

TYPE OF WASTE Wash Rack Sludge

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS Washing dirt and mud off service equipment

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT [signature]
SIGNATURE

NAME Terry Britton
PRINTED

ADDRESS 2401 Sivley
Artesia, NM 88210

DATE 2-1-99


FEB 1999
Received
Hoffs
O.D

[redacted]

Certificate of Analysis

Quanterra Incorporated
5307 Industrial Oaks Boulevard, Suite 160
Austin, Texas 78735

512 892-6684 Direct
512 892-6652 Fax

Quanterra
Environmental Services

ANALYTICAL REPORT

ARTESIA,NM

Lot #: I8A160124

DAVID BURKETT

B.J. Services Company

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

February 6, 1998


FEB 1999
Received
Hobbs
OCD

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Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

I8A160124

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WASH RACK SLUDGE 01/14/98 08:30 001				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	19000	760	mg/kg	MCAWW 418.1
Corrosivity	7.3	1.0	No Units	SW846 9045A
Percent Moisture	34.1	0.50	%	OCLP OLM03.1

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Environmental Services

ANALYTICAL METHODS SUMMARY

I8A160124

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLP OLM03.1
Corrosivity	SW846 9045A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Total Recoverable Petroleum Hydrocarbons	MCAWW 418.1
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8240B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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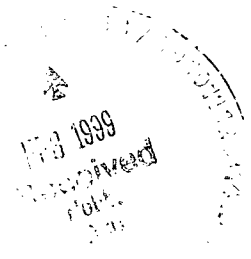
SAMPLE SUMMARY

I8A160124

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TI
CEX9V	001	WASH RACK SLUDGE	01/14/98	08:

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



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Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8A160124-001 Work Order #...: CEX9V107 Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/28/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 09:52
Dilution Factor: 1
% Moisture.....: 34

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	32	(10 - 94)
Nitrobenzene-d5	69	(35 - 114)
2-Fluorobiphenyl	64	(43 - 116)
2,4,6-Tribromophenol	111	(10 - 123)
Terphenyl-d14	114	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)


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Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...: I8A160124-001 Work Order #...: CEX9V108 Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 02/05/98 Analysis Date..: 02/05/98
Leach Batch #..: P802108 Prep Batch #...: 8036228 Analysis Time..: 23:05
Dilution Factor: 1
% Moisture.....: 34

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8240B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8240B
Chlorobenzene	ND	0.050	mg/L	SW846 8240B
Chloroform	ND	0.050	mg/L	SW846 8240B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8240B
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8240B
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8240B
Tetrachloroethylene	ND	0.050	mg/L	SW846 8240B
Trichloroethylene	ND	0.050	mg/L	SW846 8240B
Vinyl chloride	ND	0.10	mg/L	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(86 - 115)
1,2-Dichloroethane-d4	93	(76 - 114)
Toluene-d8	93	(88 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

General Chemistry

Lot-Sample #...: I8A160124-001 Work Order #...: CEX9V Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
% Moisture.....: 34

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	7.3	1.0	No Units	SW846 9045A	01/19/98	8020112
	Dilution Factor: 1					
	Analysis Time..: 13:00					
Flashpoint	>150	>150	deg F	SW846 1010	01/23/98	8026151
	Dilution Factor: 1					
	Analysis Time..: 00:00					
Percent Moisture	34.1	0.50	%	OCLP OLM03.1	01/20-01/21/98	8020237
	Dilution Factor: 1					
	Analysis Time..: 13:00					
Reactive Cyanide	ND	300	mg/kg	SW846 7.3.3	01/21-01/22/98	8022182
	Dilution Factor: 1					
	Analysis Time..: 11:16					
Reactive Sulfide	ND	300	mg/kg	SW846 7.3.4	01/21-01/22/98	8022189
	Dilution Factor: 1					
	Analysis Time..: 00:00					
Total Recoverable Petroleum Hydrocarbons	19000	760	mg/kg	MCAWW 418.1	01/26-01/27/98	8026164
	Dilution Factor: 50					
	Analysis Time..: 15:00					

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.U. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP Metals

Lot-Sample #...: I8A160124-001 **Matrix.....:** SOLID
Date Sampled...: 01/14/98 08:30 **Date Received..:** 01/16/98
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8023178						
Silver	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Arsenic	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Barium	ND	20.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Cadmium	ND	0.20	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Chromium	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Lead	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Selenium	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Prep Batch #...: 8026167						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/26/98	CEX9V10
		Dilution Factor: 1				
		Analysis Time..: 15:53				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)



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Environmental Services

QC DATA ASSOCIATION SUMMARY

I8A160124

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 1010		8026151	8026034
	SOLID	MCAWW 418.1		8026164	8026045
	SOLID	SW846 6010A	P802109	8023178	8023051
	SOLID	SW846 9045A		8020112	8020009
	SOLID	OCLP OLM03.1		8020237	8021086
	SOLID	SW846 7.3.3		8022182	8022046
	SOLID	SW846 7.3.4		8022189	8022048
	SOLID	SW846 8270B	P802109	8026185	8026060
	SOLID	SW846 8240B	P802108	8036228	8037030
	SOLID	SW846 7470A	P802109	8026167	8026051


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Environmental Services

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8A160124	Work Order #...: CF1H8109	Matrix.....: SOLID
MB Lot-Sample #: I8A210000-228		
Leach Date.....: 01/21/98	Prep Date.....: 01/26/98	Analysis Date..: 01/27/98
Leach Batch #..: P802109	Prep Batch #...: 8026185	Analysis Time..: 20:56
Dilution Factor: 1		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	42	(21 - 100)
Phenol-d5	31	(10 - 94)
Nitrobenzene-d5	71	(35 - 114)
2-Fluorobiphenyl	65	(43 - 116)
2,4,6-Tribromophenol	77	(10 - 123)
Terphenyl-d14	99	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.


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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CF814101 Matrix.....: SOLID
MB Lot-Sample #: I8B050000-228

Prep Date.....: 02/05/98 Analysis Time..: 00:07
Analysis Date..: 02/06/98 Prep Batch #...: 8036228
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8240B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8240B
Chlorobenzene	ND	0.050	mg/L	SW846 8240B
Chloroform	ND	0.050	mg/L	SW846 8240B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8240B
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8240B
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8240B
Tetrachloroethylene	ND	0.050	mg/L	SW846 8240B
Trichloroethylene	ND	0.050	mg/L	SW846 8240B
Vinyl chloride	ND	0.10	mg/L	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	106	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)
Toluene-d8	103	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



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Environmental Services

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8A210000-228 **Prep Batch #...:** 8026167						
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 15:44				
MB Lot-Sample #: I8A210000-228 **Prep Batch #...:** 8023178						
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109						
Silver	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Arsenic	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Barium	ND	10.0	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Cadmium	ND	0.10	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Chromium	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Lead	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Selenium	ND	0.25	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
		Dilution Factor: 1				
		Analysis Time..: 12:28				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.


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Environmental Services

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8A160124 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Reactive Cyanide		Work Order #: CF216101		MB Lot-Sample #:	I8A220000-182	
	ND	200	mg/kg	SW846 7.3.3	01/21-01/22/98	802218
		Dilution Factor: 1				
		Analysis Time..: 11:16				
Reactive Sulfide		Work Order #: CF22G101		MB Lot-Sample #:	I8A220000-189	
	ND	200	mg/kg	SW846 7.3.4	01/21-01/22/98	802218
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH101		MB Lot-Sample #:	I8A260000-164	
	ND	10	mg/kg	MCAWW 418.1	01/26-01/27/98	802616
		Dilution Factor: 1				
		Analysis Time..: 15:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.


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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CF3FX101 Matrix.....: SOLID
LCS Lot-Sample#: I8A260000-185
Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Prep Batch #...: 8026185 Analysis Time..: 21:26
Dilution Factor: 1

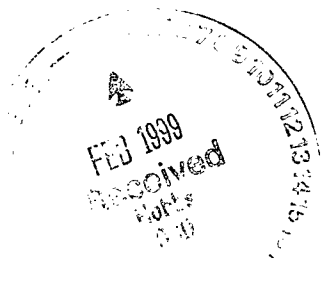
PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Pyridine	0.40	0.14	mg/L	35	SW846 8270
1,4-Dichlorobenzene	0.40	0.24	mg/L	60	SW846 8270
o-Cresol	0.40	0.23	mg/L	58	SW846 8270
m-Cresol & p-Cresol	0.80	0.41	mg/L	51	SW846 8270
Hexachloroethane	0.40	0.23	mg/L	57	SW846 8270
Nitrobenzene	0.40	0.24	mg/L	61	SW846 8270
Hexachlorobutadiene	0.40	0.23	mg/L	57	SW846 8270
2,4,6-Trichlorophenol	0.40	0.26	mg/L	64	SW846 8270
2,4,5-Trichlorophenol	0.40	0.24	mg/L	60	SW846 8270
2,4-Dinitrotoluene	0.40	0.25	mg/L	62	SW846 8270
Hexachlorobenzene	0.40	0.37	mg/L	93	SW846 8270
Pentachlorophenol	0.40	0.37	mg/L	93	SW846 8270

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	27	(10 - 94)
Nitrobenzene-d5	60	(35 - 114)
2-Fluorobiphenyl	55	(43 - 116)
2,4,6-Tribromophenol	72	(10 - 123)
Terphenyl-d14	102	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CF3FX101 Matrix.....: SOLID
LCS Lot-Sample#: I8A260000-185
Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Prep Batch #...: 8026185 Analysis Time..: 21:26
Dilution Factor: 1

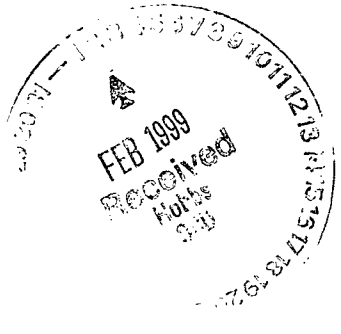
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Pyridine	35	(1.0- 144)	SW846 8270B
1,4-Dichlorobenzene	60	(26 - 112)	SW846 8270B
o-Cresol	58	(21 - 137)	SW846 8270B
m-Cresol & p-Cresol	51	(19 - 126)	SW846 8270B
Hexachloroethane	57	(26 - 102)	SW846 8270B
Nitrobenzene	61	(42 - 120)	SW846 8270B
Hexachlorobutadiene	57	(33 - 111)	SW846 8270B
2,4,6-Trichlorophenol	64	(19 - 122)	SW846 8270B
2,4,5-Trichlorophenol	60	(29 - 123)	SW846 8270B
2,4-Dinitrotoluene	62	(31 - 106)	SW846 8270B
Hexachlorobenzene	93	(42 - 120)	SW846 8270B
Pentachlorophenol	93	(12 - 156)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	27	(10 - 94)
Nitrobenzene-d5	60	(35 - 114)
2-Fluorobiphenyl	55	(43 - 116)
2,4,6-Tribromophenol	72	(10 - 123)
Terphenyl-d14	102	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CF814102 Matrix.....: SOLID
LCS Lot-Sample#: I8B050000-228
Prep Date.....: 02/05/98 Analysis Date..: 02/05/98
Prep Batch #...: 8036228 Analysis Time..: 23:36
Dilution Factor: 1

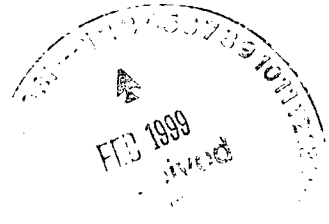
PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	0.50	0.47	mg/L	94	SW846 8240B
1,1-Dichloroethylene	0.50	0.53	mg/L	106	SW846 8240B
Chloroform	0.50	0.51	mg/L	103	SW846 8240B
1,2-Dichloroethane	0.50	0.52	mg/L	105	SW846 8240B
Methyl ethyl ketone	0.50	0.41	mg/L	82	SW846 8240B
Carbon tetrachloride	0.50	0.49	mg/L	98	SW846 8240B
Trichloroethylene	0.50	0.52	mg/L	103	SW846 8240B
Benzene	0.50	0.52	mg/L	104	SW846 8240B
Tetrachloroethylene	0.50	0.53	mg/L	105	SW846 8240B
Chlorobenzene	0.50	0.53	mg/L	107	SW846 8240B
1,4-Dichlorobenzene	0.50	0.52	mg/L	105	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(86 - 115)
1,2-Dichloroethane-d4	97	(76 - 114)
Toluene-d8	100	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CF814102 Matrix.....: SOLID
LCS Lot-Sample#: I8B050000-228
Prep Date.....: 02/05/98 Analysis Date..: 02/05/98
Prep Batch #...: 8036228 Analysis Time..: 23:36
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	94	(1.0- 251)	SW846 8240B
1,1-Dichloroethylene	106	(59 - 155)	SW846 8240B
Chloroform	103	(51 - 136)	SW846 8240B
1,2-Dichloroethane	105	(49 - 155)	SW846 8240B
Methyl ethyl ketone	82	(25 - 250)	SW846 8240B
Carbon tetrachloride	98	(71 - 240)	SW846 8240B
Trichloroethylene	103	(71 - 157)	SW846 8240B
Benzene	104	(37 - 151)	SW846 8240B
Tetrachloroethylene	105	(46 - 157)	SW846 8240B
Chlorobenzene	107	(37 - 160)	SW846 8240B
1,4-Dichlorobenzene	105	(75 - 137)	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(86 - 115)
1,2-Dichloroethane-d4	97	(76 - 114)
Toluene-d8	100	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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LABORATORY CONTROL SAMPLE DATA REPORT

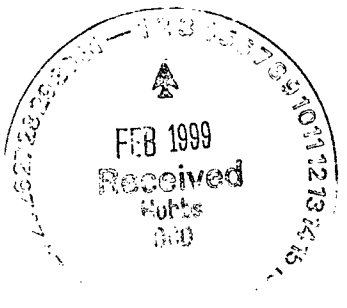
TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8A230000-178 **Prep Batch #...:** 8023178							
Arsenic	2.0	2.1	mg/L	106	SW846 6010A	01/23-01/26/98	CF2HC101
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Barium	2.0	2.1	mg/L	105	SW846 6010A	01/23-01/26/98	CF2HC102
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Cadmium	0.050	0.050	mg/L	101	SW846 6010A	01/23-01/26/98	CF2HC103
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Chromium	0.20	0.21	mg/L	104	SW846 6010A	01/23-01/26/98	CF2HC104
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Lead	0.50	0.51	mg/L	102	SW846 6010A	01/23-01/26/98	CF2HC105
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Selenium	2.0	2.1	mg/L	105	SW846 6010A	01/23-01/26/98	CF2HC106
		Dilution Factor: 1					
		Analysis Time..: 12:30					
Silver	0.050	0.046	mg/L	93	SW846 6010A	01/23-01/26/98	CF2HC107
		Dilution Factor: 1					
		Analysis Time..: 12:30					
LCS Lot-Sample#: I8A260000-167 **Prep Batch #...:** 8026167							
Mercury	0.0050	0.0053	mg/L	105	SW846 7470A	01/26/98	CF3F0101
		Dilution Factor: 1					
		Analysis Time..: 15:46					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.


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LABORATORY CONTROL SAMPLE EVALUATION REPORT

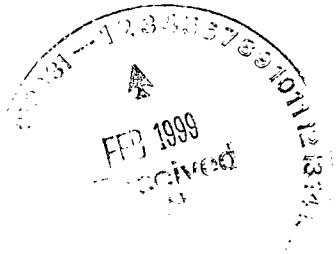
TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8A230000-178 **Prep Batch #...:** 8023178					
Arsenic	106	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC101
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Barium	105	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC102
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Cadmium	101	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC103
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Chromium	104	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC104
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Lead	102	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC105
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Selenium	105	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC106
		Dilution Factor: 1			
		Analysis Time..: 12:30			
Silver	93	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC107
		Dilution Factor: 1			
		Analysis Time..: 12:30			
LCS Lot-Sample#: I8A260000-167 **Prep Batch #...:** 8026167					
Mercury	105	(80 - 120)	SW846 7470A	01/26/98	CF3F0101
		Dilution Factor: 1			
		Analysis Time..: 15:46			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.


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LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

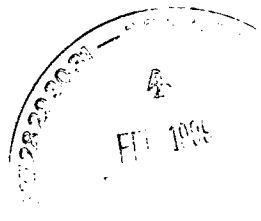
Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint		Work Order #: CF3CV101 LCS Lot-Sample#: I8A260000-151					
	81	80	deg F	98	SW846 1010	01/23-01/26/98	8026151
		Dilution Factor: 1					
		Analysis Time..: 14:00					
Reactive Cyanide		Work Order #: CF216102 LCS Lot-Sample#: I8A220000-182					
	40	0.19 N	mg/kg	0.46	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1					
		Analysis Time..: 11:16					
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH102 LCS Lot-Sample#: I8A260000-164					
	250	240	mg/kg	96	MCAWW 418.1	01/26-01/27/98	8026164
		Dilution Factor: 1					
		Analysis Time..: 15:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.



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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint		Work Order #: CF3CV101		LCS Lot-Sample#: I8A260000-151	
	98	(95 - 105)	SW846 1010	01/23-01/26/98	8026151
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Reactive Cyanide		Work Order #: CF216102		LCS Lot-Sample#: I8A220000-182	
	C 46 N	(1.0- 64)	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1			
		Analysis Time..: 11:16			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH102		LCS Lot-Sample#: I8A260000-164	
	96	(70 - 130)	MCAWW 418.1	01/26-01/27/98	8026164
		Dilution Factor: 1			
		Analysis Time..: 15:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.


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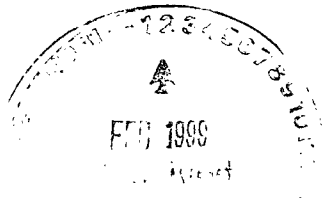
MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID
Date Sampled...: 01/14/98 10:10 **Date Received..:** 01/15/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: I8A160124-001 **Prep Batch #...:** 8023178									
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109									
Silver									
	ND	1.0	0.98	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	1.0	0.96	mg/L	95	1.8	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Arsenic									
	ND	5.0	5.1	mg/L	102		SW846 6010A	01/23-01/26/98	CEX9V1(
	ND	5.0	5.0	mg/L	100	2.4	SW846 6010A	01/23-01/26/98	CEX9V1(
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Barium									
	ND	50.0	49.3	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V1C
	ND	50.0	48.7	mg/L	96	1.1	SW846 6010A	01/23-01/26/98	CEX9V1C
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Cadmium									
	ND	1.0	0.99	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V10
	ND	1.0	0.98	mg/L	97	0.80	SW846 6010A	01/23-01/26/98	CEX9V10
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Chromium									
	ND	5.0	4.9	mg/L	98		SW846 6010A	01/23-01/26/98	CEX9V10
	ND	5.0	4.9	mg/L	98	0.78	SW846 6010A	01/23-01/26/98	CEX9V10
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Lead									
	ND	5.0	4.9	mg/L	98		SW846 6010A	01/23-01/26/98	CEX9V11(
	ND	5.0	4.9	mg/L	99	0.95	SW846 6010A	01/23-01/26/98	CEX9V111
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Selenium									
	ND	1.0	0.96	mg/L	96		SW846 6010A	01/23-01/26/98	CEX9V112
	ND	1.0	0.93	mg/L	93	2.9	SW846 6010A	01/23-01/26/98	CEX9V113
			Dilution Factor: 2						
			Analysis Time..: 12:37						

MS Lot-Sample #: I8A160124-001 **Prep Batch #...:** 8026167
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109
(Continued on next page)


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MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

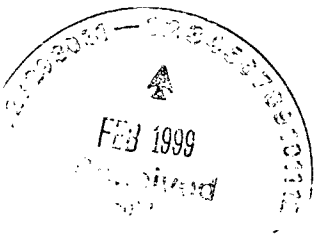
Client Lot #...: I8A160124 **Matrix.....:** SOLID
Date Sampled...: 01/14/98 10:10 **Date Received..:** 01/15/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	0.001	0.0010	mg/L	90		SW846 7470A	01/26/98	CEX9V11
	ND	0.001	0.0010	mg/L	89	1.0	SW846 7470A	01/26/98	CEX9V11

Dilution Factor: 1
Analysis Time..: 15:55

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.


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MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8A160124 **Matrix.....:** SOLID
Date Sampled...: 01/14/98 10:10 **Date Received..:** 01/15/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8A160124-001 **Prep Batch #...:** 8023178							
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109							
Silver	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V114
	95	(80 - 120)	1.8	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V115
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Arsenic	102	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10P
	100	(80 - 120)	2.4	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10Q
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Barium	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10R
	96	(80 - 120)	1.1	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10T
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Cadmium	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10U
	97	(80 - 120)	0.80	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10V
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Chromium	98	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10W
	98	(80 - 120)	0.78	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V10X
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Lead	98	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V110
	99	(80 - 120)	0.95	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V111
		Dilution Factor: 2					
		Analysis Time..: 12:37					
Selenium	96	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V112
	93	(80 - 120)	2.9	(0-20)	SW846 6010A	01/23-01/26/98	CEX9V113
		Dilution Factor: 2					
		Analysis Time..: 12:37					
MS Lot-Sample #: I8A160124-001 **Prep Batch #...:** 8026167							
Leach Date.....: 01/21/98 **Leach Batch #..:** P802109							
Mercury	90	(75 - 125)			SW846 7470A	01/26/98	CEX9V119
	89	(75 - 125)	1.0	(0-20)	SW846 7470A	01/26/98	CEX9V11A
		Dilution Factor: 1					
		Analysis Time..: 15:55					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.


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MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CEX9V11C-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11D-MSD
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 22:26
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	ND	0.40	0.28	mg/L	71		SW846 8270B
	ND	0.40	0.29	mg/L	72	1.9	SW846 8270B
m-Cresol & p-Cresol	ND	0.80	0.51	mg/L	64		SW846 8270B
	ND	0.80	0.54	mg/L	67	4.9	SW846 8270B
1,4-Dichlorobenzene	ND	0.40	0.28	mg/L	70		SW846 8270B
	ND	0.40	0.28	mg/L	71	0.93	SW846 8270B
2,4-Dinitrotoluene	ND	0.40	0.35	mg/L	87		SW846 8270B
	ND	0.40	0.33	mg/L	82	5.8	SW846 8270B
Hexachlorobenzene	ND	0.40	0.37	mg/L	92		SW846 8270B
	ND	0.40	0.35	mg/L	86	6.5	SW846 8270B
Hexachlorobutadiene	ND	0.40	0.29	mg/L	72		SW846 8270B
	ND	0.40	0.30	mg/L	74	3.1	SW846 8270B
Hexachloroethane	ND	0.40	0.28	mg/L	69		SW846 8270B
	ND	0.40	0.28	mg/L	70	1.3	SW846 8270B
Nitrobenzene	ND	0.40	0.32	mg/L	79		SW846 8270B
	ND	0.40	0.32	mg/L	80	0.80	SW846 8270B
Pentachlorophenol	ND	0.40	0.43	mg/L	107		SW846 8270B
	ND	0.40	0.41	mg/L	102	4.4	SW846 8270B
Pyridine	ND	0.40	0.19	mg/L	48		SW846 8270B
	ND	0.40	0.20	mg/L	49	2.6	SW846 8270B
2,4,5-Trichlorophenol	ND	0.40	0.39	mg/L	97		SW846 8270B
	ND	0.40	0.36	mg/L	90	7.3	SW846 8270B
2,4,6-Trichlorophenol	ND	0.40	0.36	mg/L	90		SW846 8270B
	ND	0.40	0.34	mg/L	86	4.3	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(21 - 100)
	46	(21 - 100)
Phenol-d5	34	(10 - 94)
	34	(10 - 94)
Nitrobenzene-d5	78	(35 - 114)
	79	(35 - 114)
2-Fluorobiphenyl	73	(43 - 116)
	74	(43 - 116)
2,4,6-Tribromophenol	102	(10 - 123)
	95	(10 - 123)
Terphenyl-d14	101	(33 - 141)
	99	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CEX9V11C-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11D-MSD
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 22:26
Dilution Factor: 1

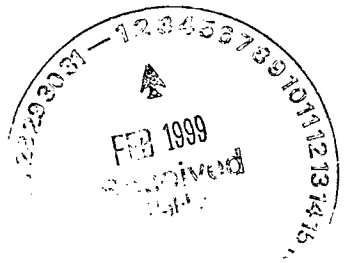
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	71	(21 - 137)			SW846 8270B
	72	(21 - 137)	1.9	(0-70)	SW846 8270B
m-Cresol & p-Cresol	64	(19 - 126)			SW846 8270B
	67	(19 - 126)	4.9	(0-94)	SW846 8270B
1,4-Dichlorobenzene	70	(26 - 112)			SW846 8270B
	71	(26 - 112)	0.93	(0-40)	SW846 8270B
2,4-Dinitrotoluene	87	(31 - 106)			SW846 8270B
	82	(31 - 106)	5.8	(0-55)	SW846 8270B
Hexachlorobenzene	92	(42 - 120)			SW846 8270B
	86	(42 - 120)	6.5	(0-39)	SW846 8270B
Hexachlorobutadiene	72	(33 - 111)			SW846 8270B
	74	(33 - 111)	3.1	(0-40)	SW846 8270B
Hexachloroethane	69	(26 - 102)			SW846 8270B
	70	(26 - 102)	1.3	(0-44)	SW846 8270B
Nitrobenzene	79	(42 - 120)			SW846 8270B
	80	(42 - 120)	0.80	(0-40)	SW846 8270B
Pentachlorophenol	107	(12 - 156)			SW846 8270B
	102	(12 - 156)	4.4	(0-76)	SW846 8270B
Pyridine	48	(1.0- 144)			SW846 8270B
	49	(1.0- 144)	2.6	(0-95)	SW846 8270B
2,4,5-Trichlorophenol	97	(29 - 123)			SW846 8270B
	90	(29 - 123)	7.3	(0-63)	SW846 8270B
2,4,6-Trichlorophenol	90	(19 - 122)			SW846 8270B
	86	(19 - 122)	4.3	(0-64)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(21 - 100)
	46	(21 - 100)
Phenol-d5	34	(10 - 94)
	34	(10 - 94)
Nitrobenzene-d5	78	(35 - 114)
	79	(35 - 114)
2-Fluorobiphenyl	73	(43 - 116)
	74	(43 - 116)
2,4,6-Tribromophenol	102	(10 - 123)
	95	(10 - 123)
Terphenyl-d14	101	(33 - 141)
	99	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...:	I8A160124	Work Order #...:	CEX9V11E-MS	Matrix.....:	SOLID
MS Lot-Sample #:	I8A160124-001		CEX9V11F-MSD		
Date Sampled...:	01/14/98 08:30	Date Received..:	01/16/98		
Leach Date.....:	01/21/98	Prep Date.....:	02/05/98	Analysis Date..:	02/06/98
Leach Batch #..:	P802108	Prep Batch #...:	8036228	Analysis Time..:	00:39
Dilution Factor:	1				

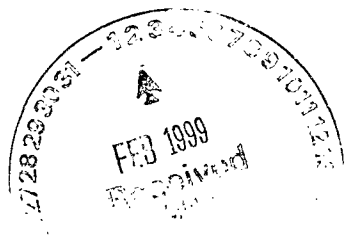
PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	ND	0.50	0.51	mg/L	101		SW846 8240B
	ND	0.50	0.50	mg/L	99	2.4	SW846 8240B
Carbon tetrachloride	ND	0.50	0.45	mg/L	91		SW846 8240B
	ND	0.50	0.45	mg/L	89	1.8	SW846 8240B
Chlorobenzene	ND	0.50	0.51	mg/L	102		SW846 8240B
	ND	0.50	0.51	mg/L	101	0.05	SW846 8240B
Chloroform	ND	0.50	0.49	mg/L	97		SW846 8240B
	ND	0.50	0.48	mg/L	96	1.0	SW846 8240B
1,2-Dichloroethane	ND	0.50	0.53	mg/L	106		SW846 8240B
	ND	0.50	0.53	mg/L	105	0.18	SW846 8240B
1,1-Dichloroethylene	ND	0.50	0.43	mg/L	85		SW846 8240B
	ND	0.50	0.42	mg/L	84	1.5	SW846 8240B
Methyl ethyl ketone	ND	0.50	0.50	mg/L	99		SW846 8240B
	ND	0.50	0.47	mg/L	93	5.9	SW846 8240B
Tetrachloroethylene	ND	0.50	0.51	mg/L	102		SW846 8240B
	ND	0.50	0.49	mg/L	99	3.2	SW846 8240B
Trichloroethylene	ND	0.50	0.49	mg/L	99		SW846 8240B
	ND	0.50	0.48	mg/L	96	3.2	SW846 8240B
Vinyl chloride	ND	0.50	0.51	mg/L	103		SW846 8240B
	ND	0.50	0.49	mg/L	97	5.4	SW846 8240B
1,4-Dichlorobenzene	ND	0.50	0.51	mg/L	101		SW846 8240B
	ND	0.50	0.49	mg/L	98	3.1	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(86 - 115)
	101	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)
	101	(76 - 114)
Toluene-d8	94	(88 - 110)
	97	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: I8A160124 Work Order #...: CEX9V11E-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11F-MSD
Date Sampled...: 01/14/98 08:30 Date Received..: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 02/05/98 Analysis Date..: 02/06/98
Leach Batch #..: P802108 Prep Batch #...: 8036228 Analysis Time..: 00:39
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	101	(37 - 151)			SW846 8240B
	99	(37 - 151)	2.4	(0-30)	SW846 8240B
Carbon tetrachloride	91	(71 - 240)			SW846 8240B
	89	(71 - 240)	1.8	(0-30)	SW846 8240B
Chlorobenzene	102	(37 - 160)			SW846 8240B
	101	(37 - 160)	0.05	(0-30)	SW846 8240B
Chloroform	97	(51 - 136)			SW846 8240B
	96	(51 - 136)	1.0	(0-30)	SW846 8240B
1,2-Dichloroethane	106	(49 - 155)			SW846 8240B
	105	(49 - 155)	0.18	(0-30)	SW846 8240B
1,1-Dichloroethylene	85	(59 - 155)			SW846 8240B
	84	(59 - 155)	1.5	(0-30)	SW846 8240B
Methyl ethyl ketone	99	(25 - 250)			SW846 8240B
	93	(25 - 250)	5.9	(0-30)	SW846 8240B
Tetrachloroethylene	102	(46 - 157)			SW846 8240B
	99	(46 - 157)	3.2	(0-30)	SW846 8240B
Trichloroethylene	99	(71 - 157)			SW846 8240B
	96	(71 - 157)	3.2	(0-30)	SW846 8240B
Vinyl chloride	103	(1.0- 251)			SW846 8240B
	97	(1.0- 251)	5.4	(0-30)	SW846 8240B
1,4-Dichlorobenzene	101	(75 - 137)			SW846 8240B
	98	(75 - 137)	3.1	(0-30)	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(86 - 115)
	101	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)
	101	(76 - 114)
Toluene-d8	94	(88 - 110)
	97	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters


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Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8A160124 **Matrix.....:** SOLID
Date Sampled...: 01/14/98 10:10 **Date Received..:** 01/15/98

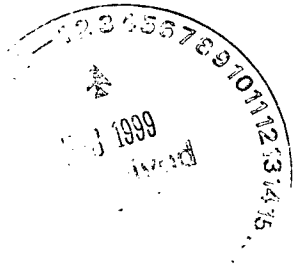
PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Reactive Cyanide			WO#: CEX9V10K-MS/CEX9V10L-MSD		MS Lot-Sample #: I8A160124-001				
	ND	61	8.0	mg/kg	12		SW846 7.3.3	01/21-01/22/98	802218
	ND	61	7.9	mg/kg	11	2.2	SW846 7.3.3	01/21-01/22/98	802218
			Dilution Factor: 1						
			Analysis Time..: 11:16						
Total Recoverable Petroleum Hydrocarbons			WO#: CEX9V117-MS/CEX9V118-MSD		MS Lot-Sample #: I8A160124-001				
	19000	380	17000 NC	mg/kg			MCAWW 418.1	01/26-01/27/98	802616
	19000	380	15000 NC	mg/kg			MCAWW 418.1	01/26-01/27/98	802616
			Dilution Factor: 1						
			Analysis Time..: 15:00						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.



Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 **Matrix.....:** SOLID
Date Sampled...: 01/14/98 10:10 **Date Received..:** 01/15/98

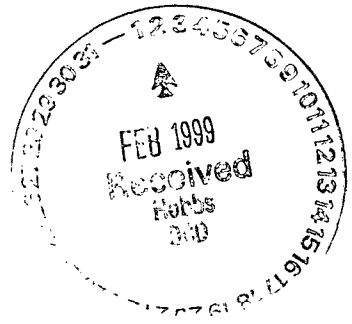
PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CEX9V10K-MS/CEX9V10L-MSD				MS Lot-Sample #: I8A160124-001	
	12	(1.0 - 64)			SW846 7.3.3	01/21-01/22/98	8022182
	11	(1.0 - 64)	2.2	(0-213)	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1					
		Analysis Time..: 11:16					
Total Recoverable Petroleum Hydrocarbons		WO#: CEX9V117-MS/CEX9V118-MSD				MS Lot-Sample #: I8A160124-001	
	NC	(70 - 130)			MCAWW 418.1	01/26-01/27/98	8026164
	NC	(70 - 130)		(0-30)	MCAWW 418.1	01/26-01/27/98	8026164
		Dilution Factor: 1					
		Analysis Time..: 15:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.


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SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

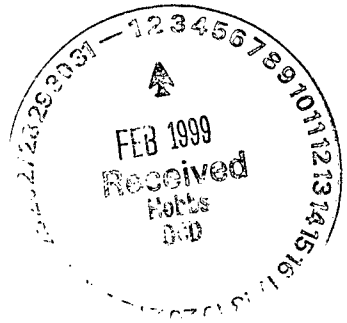
Client Lot #...: I8A160124 **Work Order #...:** CEWL7-SMP CEWL7-DUP **Matrix.....:** SOLID

Date Sampled...: 01/14/98 10:10 **Date Received..:** 01/15/98

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Percent Moisture						SD Lot-Sample #:	I8A150110-020	
	14.8	15.4	%	4.0	(0-14)	OCLP OLM03.1	01/20-01/21/98	80207

Dilution Factor: 1
Analysis Time..: 00:00


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Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 **Work Order #...:** CEX9V-SMP CEX9V-DUP **Matrix.....:** SOLID

Date Sampled...: 01/14/98 08:30 **Date Received..:** 01/16/98

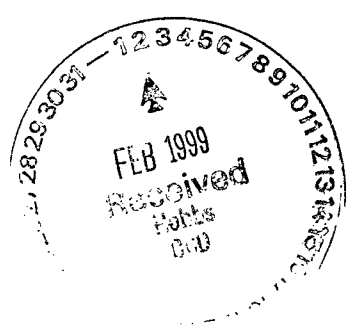
% Moisture.....: 34

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Reactive Cyanide						SD Lot-Sample #: I8A160124-001		
	ND	0.13	mg/kg	154	(0-213)	SW846 7.3.3	01/21-01/22/98	80221
		Dilution Factor: 1						
		Analysis Time..: 11:16						
Reactive Sulfide						SD Lot-Sample #: I8A160124-001		
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	01/21-01/22/98	80221
		Dilution Factor: 1						
		Analysis Time..: 00:00						
Flashpoint						SD Lot-Sample #: I8A160124-001		
	>150	>150	deg F	0.0	(0-20)	SW846 1010	01/23/98/22/98	80261
		Dilution Factor: 1						
		Analysis Time..: 00:00						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.


28 29 30 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14
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Hanks
DOD

Chain of Custody Record

Quanterra

CHAIN OF CUSTODY NUMBER

000708-001

QUA-4149 (1097)

Client B.J. SERVICES	**Project Manager** DAVID BURKETT	**Date** 12/16/1997	Page 1 of 1
Address 2401 SIVLEY	**Telephone Number (Area Code)/Fax Number** (505) 746-9247 / (281) 363-7528	**Lab Location** QUANTERRA - AUSTIN	
City ARTESIA / **State** NM / **Zip Code** 88210	**Site Contact** MIKE WIGGINS		
Project Number/Name ARTESIA, NM	**Carrier/Waybill Number** Airborne 9136181154		
Contract/Purchase Order/Quote Number CONTRACT / PURCHASE ORDER # : ARTESIA, NM	QUOTE: 22015		

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: TOTAL METALS 3010	Analysis: TCLP METALS 3010	Analysis: TCLP METALS 8021	Analysis: TCLP METALS 8270	Analysis: TCLP METALS 7470	Analysis: TCLP METALS 6010
~~WASH RACK SLUDGE~~	1-14-98	8 ~~AM~~	~~SOLID~~	~~1000mL~~	~~CLEAR GL~~	1	None	11°C	X	X	X	X	X	X

Special Instructions: INCLUDE COC, LABELED BOTTLES, BLUE ICE, RETURN SHIPPING, CUSTODY SEALS
1 SAMPLE - WASH RACK SLUDGE

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ Normal ☐ Rush ☐ Other _____

QC Level
☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12-16-97	1800	1. Received By		
2. Relinquished By	1-14-98	0815	2. Received By	1/16/98	0924
3. Relinquished By			3. Received By		

Comments


FEB 1999
Received
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BID

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

NEW MEXICO
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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FEB 0 - 1998
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8

Submit Orig
Plus 1 C
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the L G & E Natural Hobbs Plant. The waste was generated by rain caught from the plant. I have included a certificate of waste and a chain of custody. This material has been approved in the past.

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

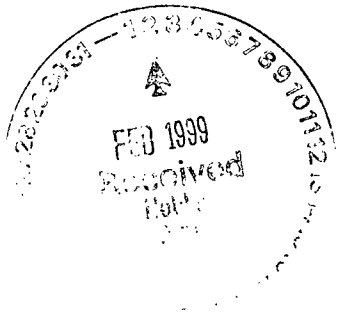
SIGNATURE: K Marsh (Waste Management Facility Authorized Agent) TITLE: Manager DATE: _____

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J Kelly TITLE: Environmental Geologist DATE: 2-4-99


FEB 1999
Received

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR L G & E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 100 bbls.

GENERATING PROCESS This waste water was generated by rain caught from the plant

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

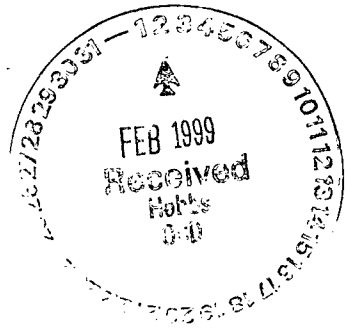
AGENT _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE


FEB 1999
Received
Rohts
O-D

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1816
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 01/29/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK
Lab Number: H2769-1
Sample ID: COMPOSITE, OPEN TOP TANK

Analysis Date: 01/29/97
Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H2769-1	Method Blank	QC	%IA	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.119	119	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Methyl Ethyl Ketone	200	<0.005	<0.005	0.086	86	0.100
Chloroform	6.0	<0.005	<0.005	0.106	106	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.113	113	0.100
Benzene	0.5	0.036	<0.005	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.113	113	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.107	107	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.109	109	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.113	113	0.100

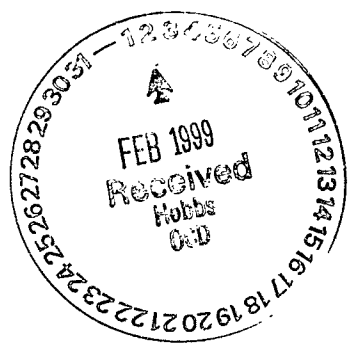
	% RECOVERY
Dibromofluoromethane	87
Toluene-d8	88
Bromofluorobenzene	88

METHODS: EPA SW 846-8260

Burgess J. A. Cooke, Ph. D.

1/29/97
Date

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ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1616
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 01/31/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK
Lab Number: H2769-1
Sample ID: COMPOSITE, OPEN TOP TANK

Analysis Date: 01/30/97
Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H2769-1	Method Blank	QC	%IA	True Value QC
Pyridine	5.00	<0.005	<0.005	0.048	96	0.050
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.051	102	0.050
o-Cresol	200	0.023	<0.005	0.047	94	0.050
m, p-Cresol	200	0.015	<0.005	0.054	108	0.050
Hexachloroethane	3.00	<0.005	<0.005	0.050	100	0.050
Nitrobenzene	2.00	<0.005	<0.005	0.048	96	0.050
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.051	102	0.050
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.050	100	0.050
2,4,5-Trichlorophenol	400	<0.005	<0.005	0.049	98	0.050
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.005	<0.005	0.051	102	0.050
Pentachlorophenol	100	<0.005	<0.005	0.047	94	0.050

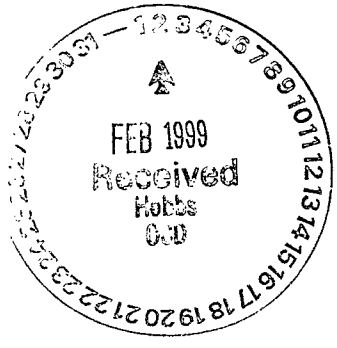
	% RECOVERY
Fluorophenol	28
Phenol-d5	27
Nitrobenzene-d5	53
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	44
Terphenyl-d14	87

METHODS: EPA SW 846-8270

Burgess J. A. Cooke, Ph. D.

1/31/97
Date

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ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1816
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 02/17/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK

Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: WL/GP

TCLP METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		2/7/97	2/12/97	2/15/97	2/12/97	2/10/97	2/12/97	2/14/97	2/7/97
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H2769-1	COMPOSITE, OPEN TOP TANK	<0.02	<0.1	0.41	<0.1	<0.5	<1	<0.02	<0.02
Quality Control		10.3	0.495	10.01	0.541	0.916	0.86	0.101	9.9
True Value QC		10.0	0.500	10.00	0.500	1.000	1.00	0.100	10.0
% Recovery		103	99.0	100	108	91.6	86.0	99.0	99.0
Relative Percent Difference		14	0.4	2.4	0.1	1.1	5.6	14	10
METHODS: EPA 1311, 600/4-78/02		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.1

Chemist

02/17/97
Date

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ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1816
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 02/10/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK

Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/GP

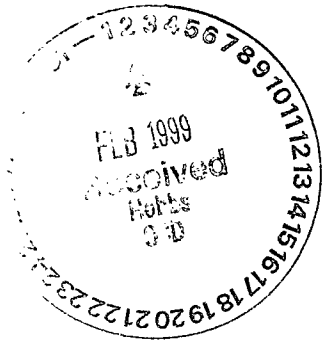
LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		2/8/97	2/8/97	1/28/97	2/1/97
H2769-1	COMPOSITE, OPEN TOP TANK	<50	<50	8.66	>140
Quality Control		NR	0.105	7.03	NR
True Value QC		NR	0.100	7.00	NR
% Recovery		NR	105	100	NR
Relative Percent Difference		NR	4.8	0.03	NR

METHOD: EPA SW 846-7.3, 7.2, 1010

Chemist

02/10/97
Date

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Environmental Analytical Services

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118 S. Commercial Ave.
Farmington, NM 87401
505-326-4669
FAX 505-326-4535

101 E. Marland
Hobbs, NM 88240
505-393-2326
FAX 505-393-2476

H2769-1

Chain of Custody Record

Project I.D. L G + E

Project Location Hobbs PLANT OPEN TOP TANK

Sampled By A. Hodge

Client Name WESTERN ENVIRONMENTAL

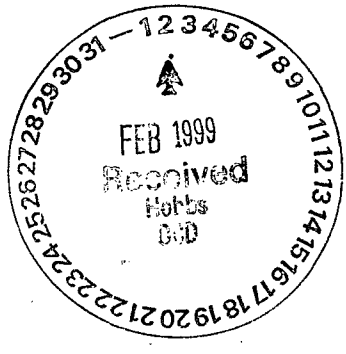
Address P.O. BOX 1816 Hobbs NM 88241

Telephone 505-392-5021 FAX 505-397-2597

Sample Number	Date	Time	Composite	Grab	Sample Location	Number of Containers	Analysis Required: TCLP VOL.	TCLP SEMI VOL	TCLP METALS	RCI			Remarks (Type sample, preservation, etc.)
1	4/16/97	300	X		COMPOSITE FROM OPEN TOP TANK	4	X	X	X	X			SAMPLE TYPE LIQUID PRESERVATION ICE SAMPLE WAS TAKEN FROM TOP TO BOTTOM WITH A COLIWASA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	4/16/97	520	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)

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District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
JAN 11 1999
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8

Submit Orig
Plus 1 C
to appropri
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Odessa Pipe Pl
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Fluid Transport
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 8870 W Loop 338	Odessa, TX

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

The following analytical is from the Weatherford Odessa Pipe Plant. The material was generated by hydroblasting oil field pipe. This material has been approved in the past and I have included a certificate of waste, Texas Waste code and a chain of custody.

01-001

Estimated Volume 120 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 1-5-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 1-11-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford Enterra, Inc.

ADDRESS 8870 West Loop 338 Odessa, TX 79763

GENERATING SITE 8870 West Loop 338 (Pipe Plant) Odessa, TX 79763

COUNTY Ector STATE Texas

TYPE OF WASTE Sludge and waste water

ESTIMATED VOLUME 120 bbls. (5040 gallons)

GENERATING PROCESS This waste was generated from hydroblasting of oilfield pipe.

REMARKS This waste is from the West Lp. (Pipe Plant) facility.

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Fluid Transports (806) 741-1080

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed wastes" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT James Scheen
SIGNATURE

NAME James SCHEEN
PRINTED

ADDRESS 8870 West Loop 338
Odessa (Pipe Plant) Tx 79763

DATE 1-5-99

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0696

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab Batch # 171634-H

Contractor: Nickell Environmental Phone: (915) 520-4700

Address: 19 Barry Rd Midland TX 797

Project Name: Sump disposal Project Director: Terry James

Project Location: Pipe Plant WLP Project Manager: Robbie Walker

Sampler Signature: Robbie Walker Project No: WEA116-0000 Pipe Plant

No. coolers this shipment:

Carrier: FedEx

Airbill No: 147701791

Contractor COC #

Quote #:

P.O. No:

Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P,G	Preservative: Ice	Preservative: Other	Sample Description	No of CONTAINERS Total	BTEX 8020/8021	TPH 418.1	TCLP Metals	RCI	TCLP VOA	TCLP SVOA	Please Hold	LAB ONLY ID #
SP	7/15	7:15					X	32 oz	G	X		Sump Sludge		X	X	X	X	X			1
																					2
																					3
																					4
																					5
																					6
																					7
																					8
																					9
																					10

Waste Oil

PIT No: Tank No:

Sample Description

Turn-around: ASAP / 24 hrs / 48 hrs / Standard

Remarks

Relinquished by	DATE	TIME	Received by	DATE	TIME
Robbie Walker	7/15/97	9:15			
			Received For Laboratory by:	7-16-97	1530

Remarks

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth:	171634-001 SP					
Ignit./F.P. Analyzed by EPA 1010		Date Analyzed - Analytical Results deg. F					
		Jul 22, 1997					
Ignitability, Pensky-Martens		> 180					
TCLP Metals Analyzed by EPA1311/6010		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 18, 1997					
Arsenic		< 0.5					
Barium		1.3					
Cadmium		< 0.10					
Chromium		< 0.5					
Lead		< 0.5					
Silver		< 0.08					
Selenium		< 0.4					
TCLP Mercury Analyzed by EPA 7470		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Mercury		< 0.022					
Cyanide RCI Analyzed by SW846 7.3.3		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Cyanide		< 0.5					
Sulfide RCI Analyzed by SW846 7.3.4		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Sulfide		< 0.5					
pH Analyzed by EPA 9045		Date Analyzed - Analytical Results S.U.					
		Jul 18, 1997					
pH, Electrometric		7.30					
TCLP S.V. Analyzed by EPA 8270		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 21, 1997					

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The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward T. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental

Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth:	171634-001 SP
1,4-Dichlorobenzene		< 0.513
2,4-Dinitrotoluene		< 0.051
Hexachlorobenzene		< 0.043
Hexachlorobutadiene		< 0.205
Hexachloroethane		< 0.513
2-Methylphenol		< 5.128
3-Methylphenol		< 5.128
4-Methylphenol		< 5.128
Nitrobenzene		< 0.513
Pentachlorophenol		< 5.128
Pyridine		< 0.513
2,4,5-Trichlorophenol		< 5.128
2,4,6-Trichlorophenol		< 0.513

TCLP Vol. Analyzed by EPA1311/8260	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)
	Jul 22, 1997
Benzene	< 0.05
2-Butanone	< 4.00
Carbon Tetrachloride	< 0.05
Chloroform	< 0.25
1,2-Dichloroethane	< 0.05
1,1-Dichloroethene	< 0.05
Tetrachloroethene	< 0.05
Trichloroethene	< 0.05
Vinyl chloride	< 0.025
Chlorobenzene	< 2.00

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Edward T. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

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Nickell Environmental

Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT
Date Report Faxed: Jul 24, 1997
XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	*Lab ID:*	171634-001					
	Field ID:	SP					
	Depth:						
TPH Analyzed by EPA 418.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 21, 1997					
Total Petroleum Hydrocarbons		10300					

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Edward H. Yonemoto, Ph.D
QA/QC Manager

75327 Weatherford U.S., Inc.

*** WASTE INFORMATION ***

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
*** Active Wastes ***						
00103071		Active	01/26/94	Off		No

Description from Generator: Pipe scale, scraping of pipe used in the oil and gas industry/ ongoing process.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

00116951 1 Active 01/26/94 Off No
Description from Generator: Sump material /tools are steam cleaned and washed to remove lubricants, dirt, paint, scale, and corrosion products/August 1993. #:
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

60C1203H H Active 08/05/94 Off No No
Description from Generator: Spent solvents (mineral spirits/varsol). Oil field related equipment, tools and parts are rinsed in solvent to removed grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and silt debris parts washing.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D001 D006 D008 D018 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Spent Solvent - Parts Wash

60022031.H Active 08/05/94 Off No
Description from Generator: Spent immersion cleaner/cold cleaner. Oil field related equipment, tools, parts, and pipe are cleaned in immersion cleaner to remove grease and debris during servicing. Waste is a mixture of heavy aromatic Naptha, oil, Monoethanolamine, grease and silt debris.
Form Code: 203 Non-halogenated solvent
EPA Hazardous Waste Numbers: D006 D008 D018 D021 D027 D035 D039 D040
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC
Company's Internal Code(s): Immersion Cleaner

60032051 1 Active 08/05/94 Off No
Description from Generator: Oil-water emulsion and mixture from oil field equipment servicing. Oil field hydraulic equipment, pipe, and tools are cleaned and reconditioned. Oil, grease, and wash water collect in sump. Waste is mixture of oil and water. Non-hazardous.
Form Code: 205 Oil-water emulsion or mixture
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

****** Active Wastes ******

Company's Internal Code(s): Sump Waste - Liquid

60045012 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, lumber, plastic, paper packing material, plastic packing material, styrofoam, glass, aluminum foil. Does not include metal parts, floor sweepings or scrap metals. Generating process is general non hazardous maintenance.

Form Code: 901 Plant production refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Plant Refuse

60059032 2 Active 08/05/94 Off No

Description from Generator: Class 2 paper, cardboard, linings, wrappings, paper, wood or plastic wrappings, food wastes, glass, aluminum foil, aluminum cans, plastics, styrofoam, food packings, empty shipping cartons, binders. Process generating is from general office operations.

Form Code: 903 Plant Office refuse

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

Company's Internal Code(s): Office Refuse

60063102 1 Active 08/05/94 Off No

Description from Generator: Used oil filters from vehicle and equipment maintenance. Non-hazardous.

Form Code: 310 Spent solid filters or absorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60072061 1 Active 08/05/94 Off No

Description from Generator: Used motor oil and used hydraulic oil from vehicle and equipment maintenance. to be sent to oil recycler. Non-hazardous.

Form Code: 206 Waste oil

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60083101 1 Active 08/05/94 Off No

Description from Generator: Used paint filters from spray paint application equipment used in painting oil field tools and equipment. Filters have been dried. There are no liquids present. Non-hazardous.

Form Code: 310 Spent solid filters or absorbents (inorganic)

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

****** Active Wastes ******

60092098 H Active 00/05/94 Off No
Description from Generator: Paint waste, oil based, liquid containing paint thinner of mineral spirits/Varsol. Generating process is from painting oil field tools and equipment, general maintenance. Ignitable.
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60[illegible]91 1 Active 08/05/94 Off No
Description from Generator: Waste paint, water based. Process generating is from paint parts, tools and equipment - general maintenance.
Form Code: 209 Organic paint, ink, lacquer, or varnish
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60114091 1 Active 08/05/94 Off No
Description from Generator: Paint waste solids from clean up of paint booth overspray, floor scrappings and wood with overspray. Generating process is from painting oil field tools and equipment.
Form Code: 409 Other non-halogenated organic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60122118 H Active 08/05/94 Off No
Description from Generator: Spent waste paint thinner used in thinning paint, cleaning paint equipment and general maintenance for paint preparation activities of oil field tools and equipment. Contains mineral spirits/Varsol/VM&P Naptha. Ignitable.
Form Code: 211 Paint thinner or petroleum distillates
EPA Hazardous Waste Numbers: D001
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting A19 Other cleaning and degreasing
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60133191 1 Active 08/05/94 Off No
Description from Generator: Pipe scale solids, including rust, drilling mud and dry oil. Generated during the cleaning and reconditioning of oil field drilling pipe. Non-hazardous.
Form Code: 319 Other waste inorganic solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

**** Active Wastes ****

60143091 1 Active 08/05/94 Off No
Description from Generator: Used lead batteries, or battery parts, casings or cores. Process generating is "out of service" batteries from facility vehicles and equipment maintenance. To be sent to battery recycler. Hazardous.
Form Code: 309 Batteries or battery parts, casings, cores
EPA Hazardous Waste Numbers: D002 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A55 Filter/Battery replacement
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7349 Building Maintenance Services, NEC

60 101 1 Active 08/05/94 Off No
Description from Generator: Oil absorbants, rags and pads from general clean up and maintenance activities. For cleaning minor releases of oil from maintenance and repair of equipment. Waste is generally a mixture of non-biodegradable absorbent granules, rags & pads impregnated with oil. Non-hazardous.
Form Code: 310 Spent solid filters or absorbents (inorganic)
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60263081 1 Active 08/05/94 Off No
Description from Generator: Empty metal drums and empty metal containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 308 Empty or crushed metal drums or containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

50174061 1 Active 08/05/94 Off No
Description from Generator: Empty fiber or plastic containers from products purchased. Rendered empty after use of product. Non-hazardous.
Form Code: 406 Empty fiber or plastic containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60182961 1 Active 08/05/94 Off No
Description from Generator: Waste glycol based antifreeze/coolant. Removed from facility vehicles and equipment during service and repair. Non-hazardous.
Form Code: 296 Ethylene glycol based antifreeze
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60196351 1 Active 09/18/95 Off No
Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned & washed to remove lubricant, dirt, paint, scale & corrosion. Liquids are removed & sludge remains.
Form Code: 595 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump sludge

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete
****** Active Wastes ******						
60203071 1		Active	08/05/94	Off		No

Description from Generator: Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.
Form Code: 307 Metal scale, filings, or scrap
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Scrap metal

60219022 2 Active 08/05/94 Off No
Description from Generator: Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.
Form Code: 902 Supplemental plant production refuse
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60222191 1 Active 08/05/94 Off No
Description from Generator: Oil based machine coolant/water soluable. Liquid. Spent coolant from machining process of tooling, cutting and grooving. Non-hazardous.
Form Code: 219 Other organic liquids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60234491 1 Active 09/18/95 Off No
Description from Generator: Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of drippings from application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60242058 H Active 08/05/94 Off No
Description from Generator: Paint waste, liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Numbers: D001 F003 F005
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A21 Painting
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

75327 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	TNRCC Audit Complete

**** Active Wastes ****

60253101 H Active 02/05/94 Off No

Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous.1

Form Code: 310 Spent solid filters or adsorbents (inorganic)

EPA Hazardous Waste Numbers: D001 F003 F005

Current Management Units: None

* Origin Codes:

* Source Codes: A21 Painting

* Measurement Points: 1 Before mixing

* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

Company's Internal Code(s): Paint filters/hazardous

602[illegible]91 1 Active 08/05/94 Off No

Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.

Form Code: 489 Petroleum contaminated solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

60283191 1 Active 12/28/94 Off No

Description from Generator: Used tires removed from trucks & equipment. Tires are no longer in service & are sent to tire recycler.

Form Code: 319 Other waste inorganic solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

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6029203H H Active 09/18/95 Off No No

Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between use. Waste includes paint aerosol cans with residual paint & propellant

Form Code: 209 Organic paint, ink, lacquer, or varnish

EPA Hazardous Waste Numbers: D001 F003 F005

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

* Source Codes: A21 Painting

* Measurement Points: 1 Before mixing

* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7359 Equipment Rental And Leasing, NEC

60304891 1 Active 09/18/95 Off No

Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Waste includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.

Form Code: 489 Petroleum contaminated solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

75127 Weatherford U.S., Inc.

Texas Waste Code	Waste Class	Status	Date of Status	Managed Onsite/ Offsite	Radio-active	THROC Audit Complete

**** Active Wastes ****

60311050H II Active 09/18/95 Off No No
Description from Generator: Spent caustic solution used for stripping paint & grease from oil field rental tools during cleaning process. Waste includes mixed solution of water, sodium hydroxide, oil, grease & paint.
Form Code: 109 Spent caustic
EPA Hazardous Waste Numbers: D002 D006 D007 D008
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: A03 Caustic (Alkali) cleaning
* Measurement Points: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found

990001 H Active Off No
Description from Generator: D001 CHARACTERISTIC OF IGNITABILITY
Form Code:
EPA Hazardous Waste Numbers: D018 D039
Current Management Units: None
* Origin Codes:

* The first value is considered the primary value (e.g. primary origin code).
As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

** No Longer Generated Wastes **

00196951 1 Inactive 09/18/95 PA No No
Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned and washed to remove lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.
Form Code: 695 Petro contam sldg not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump Sludge

00234891 1 Inactive 09/18/95 HA No No
Description from Generator: Pipe coating. Non hazardous. Pipe coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of the drippings from the application process are collected for disposal.
Form Code: 489 Petroleum contaminated solids
Current Management Units: None.
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Pipe coatings/drippings

As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.