

3R - 78

REPORTS

DATE:

1/2/1997

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

IOOO Rio Brazos Rd, Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Denied
No. confirm resh

Operator: Central Resources, Inc. Telephone: (303) 830-0100

Address: 1775 Sherman St. #2600, Denver, Colorado 80203

Facility or: Candado #23
Well Name

Location: Unit or Qtr/Qtr Sec NW NE Sec 9 T 26N R 7W County Rio Arriba

Pit Type: Separator X Dehydrator Other

Land Type: BLM X , State , Fee , Other

Pit Location: Pit dimensions: length 10 , width 10 , depth 5'
(Attach diagram)

Reference: wellhead X , other

Footage from reference: 50'

Direction from reference: 35 Degrees X East North X
of
 West South

Depth To Ground Water:

(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 Points) 20

RECEIVED

JAN 17 1997

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

Environmental Bureau
Oil Conservation Division

Yes (20 points)
No (0 points) 0

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 20

RANKING SCORE (TOTAL POINTS) : 40

Date Remediation Started: 9-12-96 Date Completed: 10-7-96

Remediation Method:
(check all appropriate
sections)

Excavation X Approx. cubic yards 85

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____

(ie. landfarmed onsite,
name and location of
offsite facility)

General Description Of Remedial Action 9/12/96 - Encountered ground water at beginning of excavation, shut down to notify BLM and NMOCD. 9/16/96 - Sampled soil and water, tried to delineate contamination. 9/18/96 - took additional sample from worst looking contamination. 10/7/96 - Met with Denny Foust, NMOCD & Bill Liess, BLM to discuss necessary action. All analysis indicate acceptable limits, Denny Foust and Bill Liess gave OK to mix excavated soil and return to pit. 50 lbs. of 46-0-0 fertilizer was added to excavated soil and pit floor before backfilling pit. Pit was contoured to promote drainage away from pit area.

Ground Water Encountered: No _____ Yes X Depth 10'

Final Pit:

Closure Sampling:

(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location _____

Sample depth _____

Sample date _____ Sample time _____

Sample Results

Benzene(ppm) _____

(SEE ATTACHED)

Total BTEX(ppm) _____

Field headspace(ppm) _____

TPH _____

Ground Water Sample: Yes X No _____ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST
OF MY KNOWLEDGE AND BELIEF

DATE 1-2-97

SIGNATURE

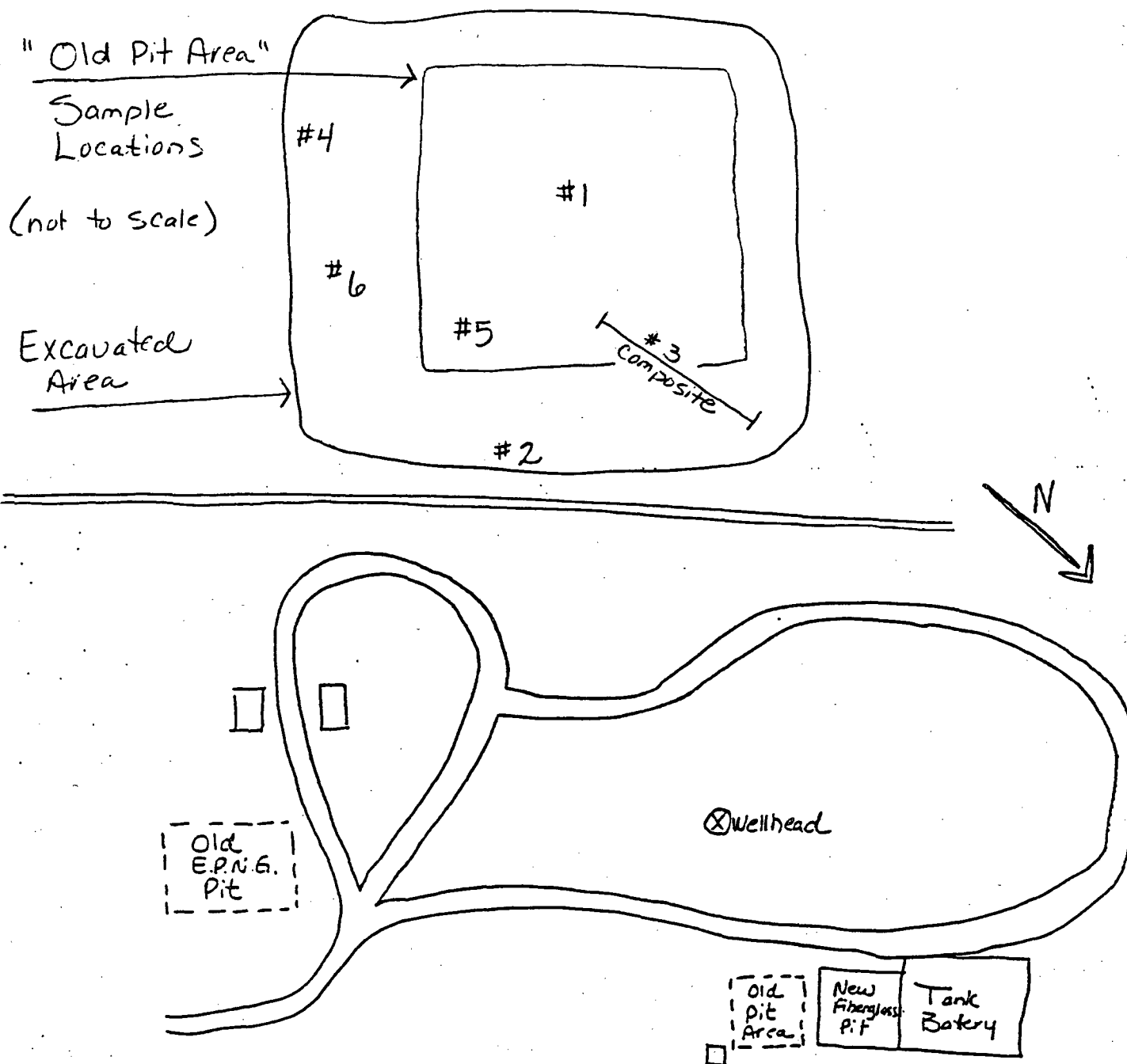
Laurie A. Cocharo

PRINTED NAME
AND TITLE

Laurie A. Cocharo
Environmental Coordinator

Central Resources, Inc.
 Candado #23 Sample Results
 Rio Arriba County, New Mexico

	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5	Sample #6
Sample Matrix	soil	soil	soil	soil	water	soil
Date	9/16/96	9/16/96	9/16/96	9/16/96	9/16/96	9/17/96
Time	14:15	15:10	15:20	16:30	17:04	10:30
Depth	9' 8"	10'	4-8'	9'	10'	4'
TPH (ppm)	41.9	27.5	8.0	ND		ND
Benzene (ppm)	0.0645	ND	0.0753	0.0263	0.0017	
Total BTEX (ppm)	0.507	0.083	0.162	0.0483	0.0095	



Sketch map of Candado #23 - (not to scale)

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#1

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-Center 9'8"	Date Reported:	09-17-96
Laboratory Number:	A573	Date Sampled:	09-16-96
Chain of Custody:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Analyzed:	09-17-96
Preservative:	Cool	Date Extracted:	09-17-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	64.5	8.8
Toluene	71.8	8.4
Ethylbenzene	64.4	7.6
p,m-Xylene	204	10.8
o-Xylene	102	5.2
Total BTEX	507	

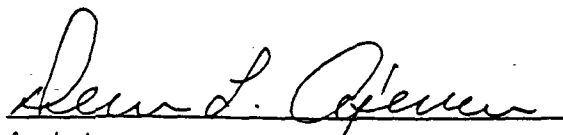
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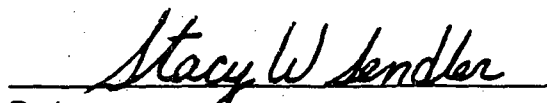
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	100 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Candado 23.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

#1

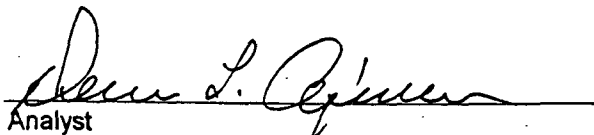
Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-Center 9' 8"	Date Reported:	09-17-96
Laboratory Number:	A573	Date Sampled:	09-16-96
Chain of Custody No:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Extracted:	09-17-96
Preservative:	Cool	Date Analyzed:	09-17-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

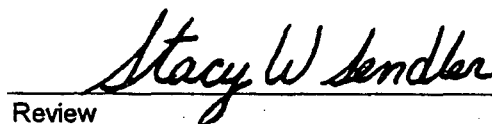
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	41.9	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Candado 23.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

#2

Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-10' Floor N. Wall	Date Reported:	09-17-96
Laboratory Number:	A574	Date Sampled:	09-16-96
Chain of Custody:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Analyzed:	09-17-96
Preservative:	Cool	Date Extracted:	09-17-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	26.7	8.4
Ethylbenzene	ND	7.6
p,m-Xylene	37.7	10.8
o-Xylene	15.9	5.2
Total BTEX	80.3	

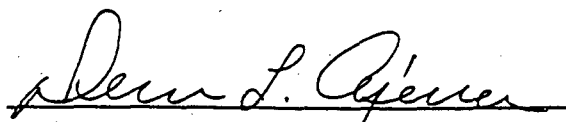
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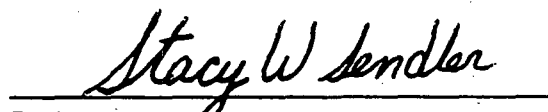
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	100 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Candado 23.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

#2

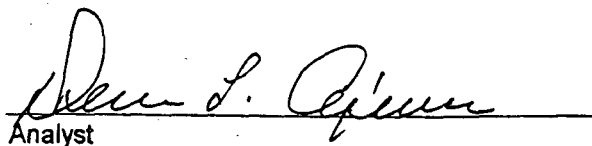
Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-10' Floor N. Wall	Date Reported:	09-17-96
Laboratory Number:	A574	Date Sampled:	09-16-96
Chain of Custody No:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Extracted:	09-17-96
Preservative:	Cool	Date Analyzed:	09-17-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

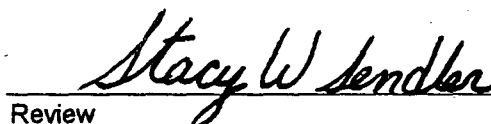
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	27.5	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Candado 23.


Analyst


Review

Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-Comp N. Wall	Date Reported:	09-17-96
Laboratory Number:	A575	Date Sampled:	09-16-96
Chain of Custody:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Analyzed:	09-17-96
Preservative:	Cool	Date Extracted:	09-17-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	75.3	8.8
Toluene	25.4	8.4
Ethylbenzene	26.9	7.6
p,m-Xylene	27.0	10.8
o-Xylene	7.8	5.2
Total BTEX	162	

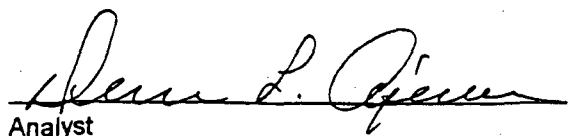
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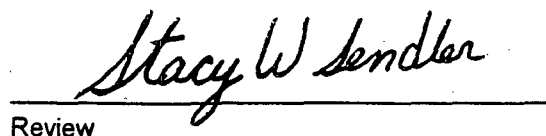
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	100 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Candado 23.


Analyst


Review

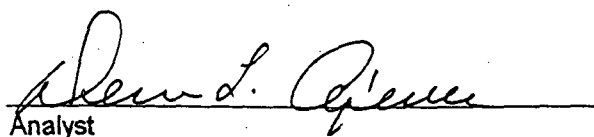
Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-Comp. N. Wall	Date Reported:	09-17-96
Laboratory Number:	A575	Date Sampled:	09-16-96
Chain of Custody No:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Extracted:	09-17-96
Preservative:	Cool	Date Analyzed:	09-17-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	8.0	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Candado 23.


Analyst


Review

#4

Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-Floor E. Wall 9'	Date Reported:	09-17-96
Laboratory Number:	A576	Date Sampled:	09-16-96
Chain of Custody:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Analyzed:	09-17-96
Preservative:	Cool	Date Extracted:	09-17-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	26.3	8.7
Toluene	22.0	8.3
Ethylbenzene	ND	7.6
p,m-Xylene	ND	10.8
o-Xylene	ND	5.2
Total BTEX	48.3	

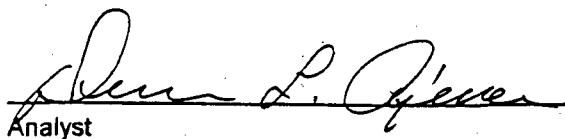
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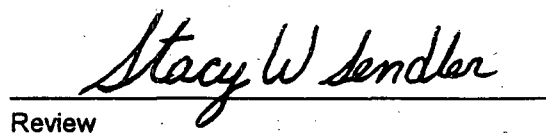
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Candado 23.


Analyst


Review

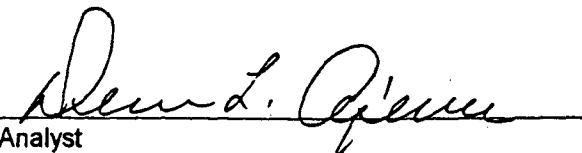
Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-Floor E. Wall 9'	Date Reported:	09-17-96
Laboratory Number:	A576	Date Sampled:	09-16-96
Chain of Custody No:	4930	Date Received:	09-16-96
Sample Matrix:	Soil	Date Extracted:	09-17-96
Preservative:	Cool	Date Analyzed:	09-17-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Candado 23.**


Analyst


Review

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Central Resources, Inc.	Project #:	96050
Sample ID:	CRI-CAND23-H2O-NE QUAD	Date Reported:	09-17-96
Chain of Custody:	4930	Date Sampled:	09-16-96
Laboratory Number:	A577	Date Received:	09-16-96
Sample Matrix:	Water	Date Analyzed:	09-17-96
Preservative:	HgCl2 & Cool	Analysis Requested:	BTEX
Condition:	Cool & Intact		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	1.7	1	0.2
Toluene	0.7	1	0.2
Ethylbenzene	1.0	1	0.2
p,m-Xylene	4.1	1	0.2
o-Xylene	2.0	1	0.1
Total BTEX	9.5		

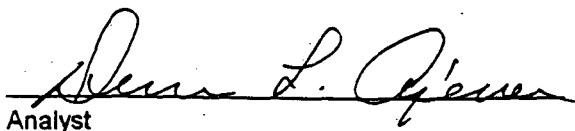
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Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	100 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Candado 23.


Analyst


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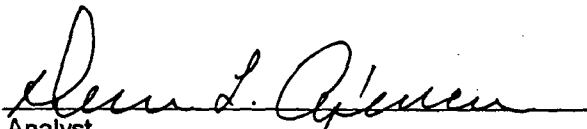
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Sample ID:	CRI-CAND23-Soil	Date Reported:	09-17-96
Laboratory Number:	A578	Date Sampled:	09-17-96
Chain of Custody No:	4929	Date Received:	09-17-96
Sample Matrix:	Soil	Date Extracted:	09-17-96
Preservative:	Cool	Date Analyzed:	09-17-96
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

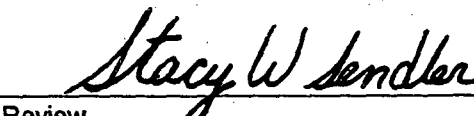
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Candado 23.


Analyst


Review