Blow/Tank B037 Bedrock
Prod - Bedrock

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 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

RECEIVED
OCT - 7 1999
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

~~B037~~

Operator: Amoco Production Company **Telephone:** (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name STATE Com D 5

Location: Unit or Qtr/Qtr Sec F Sec 32 T 27N R 8W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other BLOW / TANK

Land Type: BLM ___, State X, Fee ___, Other ___

Pit Location: (Attach diagram)

Pit dimensions: length 8', width 8', depth 7'

Reference: wellhead X, other ___

Footage from reference: 120

Direction from reference: 60 Degrees ___ East North X of X 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)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	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)	0
	RANKING SCORE (TOTAL POINTS):	0

80371

Date Remediation Started: _____ **Date Completed:** 5-31-96

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 16

Landfarmed X Insitu Bioremediation ___

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite X Offsite _____

General Description Of Remedial Action: _____

Excavation INTO BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

Ground Water Encountered: No X Yes ___ Depth _____

Final Pit:
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 7' (PIT BOTTOM).

Sample date 5-31-96 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 10

TPH —

Ground Water Sample: Yes ___ No X (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 6-21-96

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

RCV

CLIENT: AMOCO

P + A LOCATION

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: B0371

C.O.C. NO: —

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: STATE COM O 5 PIT TYPE: BLOW/MNK

QUAD/UNIT: F SEC: 32 TWP: 27N RNG: 8W BM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: SE/NW CONTRACTOR: CHARLIE DEAN

DATE STARTED: 5-31-96

DATE FINISHED: —

ENVIRONMENTAL SPECIALIST: RCV

EXCAVATION APPROX. 8 FT. x 8 FT. x 7 FT. DEEP. CUBIC YARDS: 16

DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE LEASE: E-7592 FORMATION: DAKOTA

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 120 FEET N60°W FROM WELLHEAD.

DEPTH TO GROUNDWATER >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

PIT EXCAVATED INTO BEDROCK - SAND STONE / SILT STONE. ALL LOOSE SOILS EXCAVATED, NO TPH TES- RUN DUE TO BEDROCK CONDITIONS.

BEDROCK

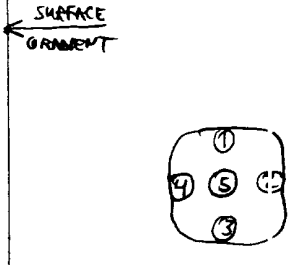
FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

0 5 10FT

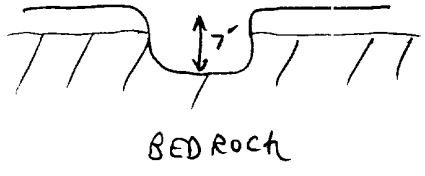
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NS-4'	2
2 ES-4'	2
3 SS-4'	3
4 WS-4'	2
5 CB-7'	10
LAB	SAMPLES

PIT PROFILE



TRAVEL NOTES: CALLOUT: 5-30-96 ONSITE: 5-31-96 0850

FORM REVISED 7/95

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
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

B0371

Operator: Amoco Production Company **Telephone:** (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: Well Name STATE COM D 5

Location: Unit or Qtr/Qtr Sec F Sec 32 T 27 N R 8 W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other PRODUCTION

Land Type: BLM ___, State X, Fee ___, Other ___

Pit Location: (Attach diagram)
Pit dimensions: length 20', width 15', depth 7'
Reference: wellhead X, other ___
Footage from reference: 100
Direction from reference: 0 Degrees ___ 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)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	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)	0
	RANKING SCORE (TOTAL POINTS):	0

BO371

Date Remediation Started: _____ **Date Completed:** 5-31-96

Remediation Method: (Check all appropriate sections) Excavation X Approx. cubic yards 75

Landfarmed X Insitu Bioremediation ___

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite X Offsite _____

General Description Of Remedial Action: _____

Excavation IN TO BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED.

Ground Water Encountered: No X Yes ___ Depth _____

Final Pit:
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

Sample depth 7' (PIT Bottom)

Sample date 5-31-96 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 2

TPH —

Ground Water Sample: Yes ___ No X (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 6-21-96

SIGNATURE B J Shaw

PRINTED NAME AND TITLE Buddy D. Shaw Environmental Coordinator

CLIENT: AMOCO P+A LOCATION	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: 80371 C.O.C. NO: —

FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: STATE COM D 5 PIT TYPE: PROD. DATE STARTED: 5-31-96 DATE FINISHED: —

QUAD/UNIT: F SEC: 32 TWP: 27 N RNG: 8 W BM: NM CNTY: SJ ST: NM ENVIRONMENTAL SPECIALIST: REG

QTR/FOOTAGE: SE/NW CONTRACTOR: CHARLIE DEAN

EXCAVATION APPROX. 15 FT. x 20 FT. x 7 FT. DEEP. CUBIC YARDS: 75

DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE LEASE: E-7592 FORMATION: DAKOTA

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 100 FEET NORTH FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

PIT EXCAVATED INTO SANDSTONE BEDROCK. NO ADDITIONAL EXCAVATION POSSIBLE. SOME STAINING VISIBLE ON SANDSTONE SIDEWALLS. SAMPLES COLLECTED BY SCRAPING. NO TPH TEST RUN DUE TO SANDSTONE.

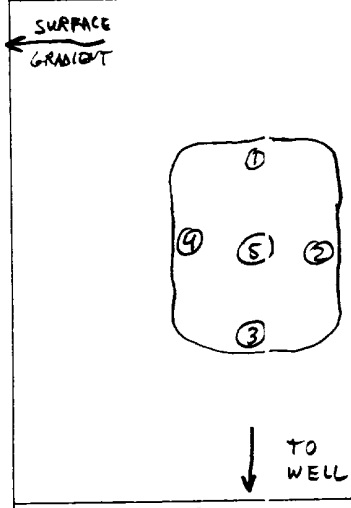
BEDROCK

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE 0 5 10FT

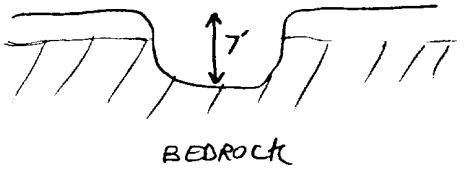
PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NS-4'	3
2 ES-4'	2
3 SS-4'	20
4 WS-4'	1
5 CB-7'	2
LAB	SAMPLES

PIT PROFILE



TRAVEL NOTES: CALLOUT: 5-30-96 ONSITE: 5-31-96 0810

FORM REVISED 7/95

CLIENT: AMOCO

P + A LOCATION

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 80371

C.O.C. NO: [redacted]

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: STATE GOM D 5 LEASE: E-7592

QUAD/UNIT: F SEC: 32 TWP: 27N RNG: 8W BM: N.M. CNTY: S.J. ST: N.M.

QTR/FOOTAGE: SE/NW CONTRACTOR: CHARLIE DEAN

DATE STARTED: 5-31-96

DATE FINISHED:

ENVIRONMENTAL SPECIALIST: R.E.D.

SOIL REMEDIATION

REMEDIATION SYSTEM: STOCKPILE APPROX. CUBIC YARDAGE: 91

LAND USE: RANGE

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

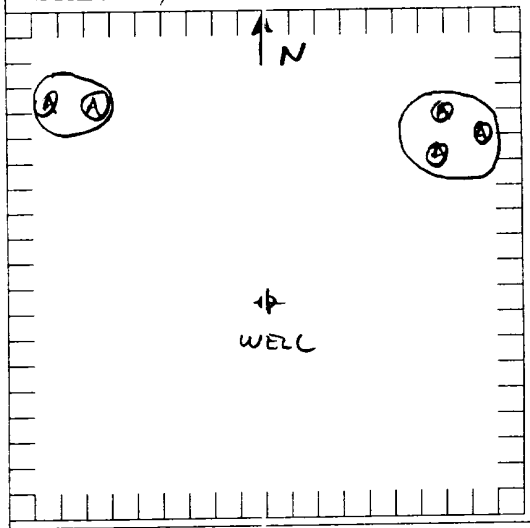
SOIL FROM 2 PITS STOCKPILED - COMPOSITE SAMPLE COLLECTED.

SOIL WILL BE LANDFARMED ON SITE.

FIELD 418.1 CALCULATIONS

SAMPLE I.D	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
COMP. A	1729	10.0	20.0	10	700	14,000

SKETCH/SAMPLE LOCATIONS



SCALE

0 FT

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
COMP. A	166

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS

TRAVEL NOTES: CALLOUT: 5-30-96 ONSITE: 5-31-96 0930

FORM REVISED 4/96

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	
Sample ID:	Composite A	Date Analyzed:	5-31-96
Project Location:	State Com D 5	Date Reported:	5-31-96
Laboratory Number:	TPH-1729	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	**14,000**	**100**

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	724	568	24

*Administrative Acceptance limits set at 30%.

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

Comments: Stockpile - B0371

R. E. O'Neill
Analyst

Review 11/4/96

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:	********** **********		
Client:	Amoco	Project #:	
Sample ID:	Composite A	Date Analyzed:	5-31-96
Project Location:	State Com D 5	Date Reported:	5-31-96
Laboratory Number:	TPH-1729	Sample Matrix:	Soil

Sample Weight:	10.00	grams
Volume Freon:	20.00	mL
Dilution Factor:	10	(unitless)
TPH Reading:	700	mg/kg

TPH Result:	14000.0	mg/kg
Reported TPH Result:	14000.0	mg/kg
Actual Detection Limit:	100.0	mg/kg
Reported Detection Limit	100	mg/kg

QA/QC:	Original TPH mg/kg	Duplicate TPH mg/kg	% Diff.
	724	568	24

Comments: **********Max Characters**********

Comments: Stockpile - B0371

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: B0371
C.O.C. NO: 6033

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: STATE COM D WELL #: 5 PITS: BLOW/PROD. PROD.
QUAD/UNIT: F SEC: 32 TWP: 27N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: SE/4 NW/4 CONTRACTOR: VAUGHN

DATE STARTED: 6/23/98
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

SOIL REMEDIATION:
REMEDIATION SYSTEM: LANDFARM
LAND USE: RANGE
APPROX. CUBIC YARDAGE: 91
LIFT DEPTH (ft): 1'

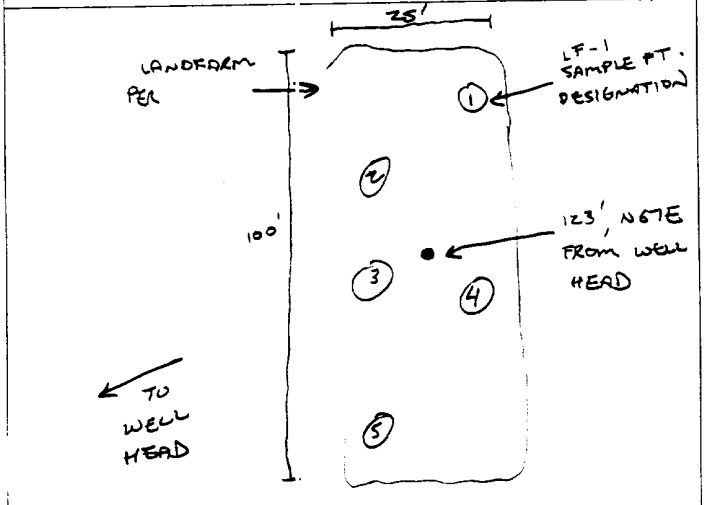
FIELD NOTES & REMARKS:
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM
MOSTLY DK. YELL. BROWN TO OLIVE GRAY SAND, NON COHESIVE SLIGHTLY MOIST, FILL SAMPLE DEPTHS RANGE FROM 6" TO 12", UNABLE TO DISCERN DISCOLORATION OR HC ODOR @ ANY SAMPLE PT., COLLECTED 5 PT. COMPOSITE SAMPLE FOR LAB ANALYSIS, NO SURFACE EQUIP ON LOCATION, WELL APPARENTLY SHUT IN (PERMANENTLY?).

CLOSED

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
LF-1	24.2

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	TPH (8015)	0910	979

SCALE
0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 6/23/98 - MORN.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	06-29-98
Laboratory Number:	D487	Date Sampled:	06-23-98
Chain of Custody No:	6033	Date Received:	06-25-98
Sample Matrix:	Soil	Date Extracted:	06-26-98
Preservative:	Cool	Date Analyzed:	06-26-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**6.8**	**0.2**
Diesel Range (C10 - C28)	**972**	**0.1**
Total Petroleum Hydrocarbons	**979**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **State Com D #5 Landfarm. 5 Pt. composite.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN OF CUSTODY RECORD

6033

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / AMOCO	LANDFARM STATE COM D #5	

Sampler:	Client No.
NJV	0403440

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)						Remarks
												PRESERV. - COOL
LF-1	6/23/98	0910	D487	SOIL	1	✓						5 PT. COMPOSITE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6/25/98	1334	[signature]	6.25.98	1354
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

Ref COC's 6032 - 6034

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-26-TPH QA/QC	Date Reported:	06-29-98
Laboratory Number:	D486	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-26-98
Condition:	N/A	Analysis Requested:	TPH

Calibration	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-28-98	6.4468E-02	6.4390E-02	0.12%	0 - 15%
Diesel Range C10 - C28	04-28-98	7.2894E-02	7.2791E-02	0.14%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Wast SW-846, USEPA, December 1996.

Comments: **QA/QC for samples D486 - D490.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865