

District I
P.O. Box 1980, Hobbs, NM

State of New Mexico
Energy, Minerals and Natural Resources Department

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

District II

P.O. Box 222, Hobbs, NM 88241

District III

1000 100 Street, N.E., Albuquerque, NM 87106

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DEC 13 1996

PIT REMEDIATION AND CLOSURE REPORT

Approved

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: HEATH GC GLE
Well Name

Location: Unit or Qtr/Qtr Sec I Sec 8 T29N R9W county SAN JUAN

Pit Type: Separator Dehydrator Other BLOW

Land Type: BLM , State , Fee , other com AGMT.

Pit Location: Pit dimensions: length 35', width 29', depth 8'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 165'

Direction from reference: 45 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) 6

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 10/12/94

Remediation Method: Excavation ☒ Approx. cubic yards 150
 (Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
 Other RUN THROUGH ROCK CRUSHER

Remediation Location: Onsite _____ Offsite ☒ Amoco GARCIA B #2
 (ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: _____
Excavation

Ground Water Encountered: No ☒ 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 5'

Sample date 10/12/94 Sample time 1245

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 13.2

TPH 40 ppm

Ground Water Sample: Yes _____ 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 10/12/94

SIGNATURE B. Shaw

PRINTED NAME
 AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B0119</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>HEATH GC</u> WELL #: <u>GIE</u> PIT: <u>BLOW</u>		DATE STARTED: <u>10/12/94</u> DATE FINISHED: _____
QUAD/UNIT: <u>I</u> SEC: <u>8</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>PM</u> CNTY: <u>ST</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>NE/4</u> <u>SE/4</u> CONTRACTOR: <u>P. DELASQUEZ</u>		

EXCAVATION APPROX. 35 FT. x 29 FT. x 8 FT. DEEP. CUBIC YARDAGE: 150

DISPOSAL FACILITY: ON SITE PAUL & SONS REMEDIATION METHOD: ROCK CRUSHER

LAND USE: RANGE LEASE: SF-076337 FORMATION: OK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 165 FT. N45W FROM WELLHEAD.

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

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

SOIL AND EXCAVATION DESCRIPTION:

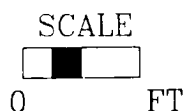
MOSTLY SAND & GRAVEL, PALE ORANGE, NON-COHESIVE, DRY TO SLIGHTLY MOIST
LOOSE TO FIRM. BOTTOM CONSIST OF BEDROCK, HARD, LT. MED. GRAY IN
COLOR.

CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

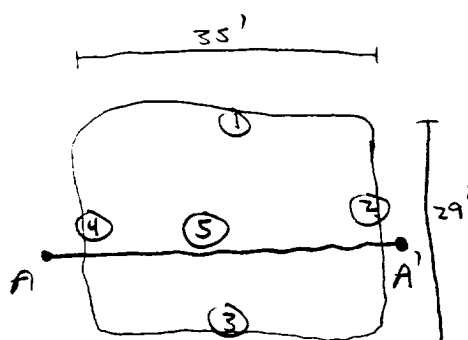
CLOSED



FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1245	<u>(3) ES'</u>	TPH-1188	<u>5</u>	<u>20</u>	<u>1:1</u>	<u>10</u>	<u>40</u>

PIT PERIMETER

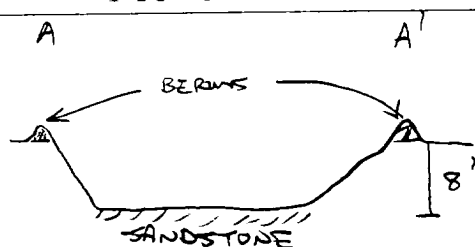


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 4'	2.9
2 @ 4'	0.0
3 @ 5'	13.2
4 @ 4'	0.0
5 @ 8'	1552

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: 10/11/94 ONSITE: 10/12/94

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:	4 @ 5'	Date Analyzed:	10-12-94
Project Location:	Heath GC G 1 E	Date Reported:	10-12-94
Laboratory Number:	TPH-1188	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	40	20

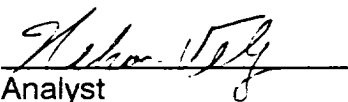
ND = Not Detectable at stated detection limits.


QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	1584	1372	14.34

*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: Blow Pit - B0119


Analyst


Review

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

80111
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APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: HEATH GC GIE
Well Name
Location: Unit or Qtr/Qtr Sec I Sec 8 T4N R9W County SAN JUAN
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: BLM ☐, State ☐, Fee ☐, Other COM AGMT.

Pit Location: Pit dimensions: length 14', width 25', depth 15'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 170'
Direction from reference: 15 Degrees ☒ East North ☒
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

Date Remediation Started: _____ Date Completed: 10/20/94

Remediation Method: Excavation ☒ Approx. cubic yards 145
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other ROCK CRUSHER

Remediation Location: Onsite _____ Offsite ☒ Amoco GARCIA Rd. WELL
(ie. landfarmed onsite, name and location of offsite facility) SITE

General Description Of Remedial Action: _____
Excavation

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 11'
Sample date 10-18-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 607

TPH 12,000 ppm

Ground Water Sample: Yes _____ 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 10/20/94
SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80119</u> C.B.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: <u>HEATH GC</u>	WELL #: <u>GIE</u>	PIT: <u>SEP</u>	DATE STARTED: <u>10/18/94</u>
QUAD/UNIT: <u>I</u>	SEC: <u>8</u>	TWP: <u>29N</u>	RNG: <u>9W</u>
PM: <u>NM</u>	CNTY: <u>ST</u>	ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>NEL4</u>	<u>SE14</u>	CONTRACTOR: <u>P. VELASQUEZ</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. 14 FT. x 25 FT. x 15 FT. DEEP. CUBIC YARDAGE: 145

DISPOSAL FACILITY: AMOCO GARCIA 82 REMEDIATION METHOD: ROCK CRUSHER

LAND USE: RANGE LEASE: SF - 076337 FORMATION: DK

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>170</u> FT. <u>NISE</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u>
NEAREST SURFACE WATER: <u>>1000'</u>	
NMOCD RANKING SCORE: <u>0</u>	NMOCD TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED

EXCAVATION CONSIST MOSTLY OF GRAVEL W/ SOME SAND, ROCKS MOSTLY COBBLE,
 BOTTOM - HAZ. SANDSTONE, DK. GRAY DISCOLORATION, UNABLE TO OBTAIN REPRESENTABLE
 SAMPLE DUE TO RECENT PRECIPITATION MAKING MOISTURE CONTENT TOO EXTREME.

CONDITIONAL
CLOSURE

- EQUIPMENT

FIELD 4181 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0904	2 @ 11'	TAH-1199	5	20	10:1	300	12,000

SCALE

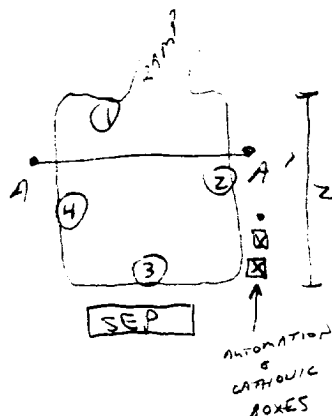


0 FT

PIT PERIMETER

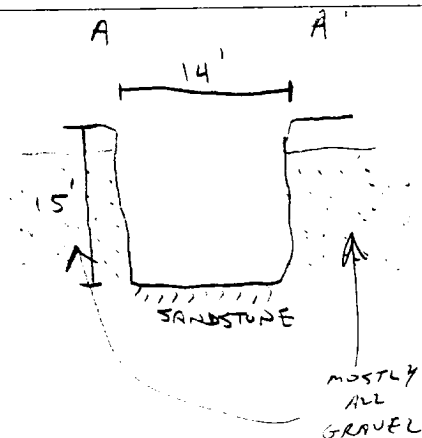
OVM
RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 12'	1.9
2 @ 11'	607
3 @ 11'	567
4 @ 11'	341
5	

SAMPLE ID	ANALYSIS	TIME



TRAVEL NOTES: CALLOUT: 10/12/94 ONSITE: 10/18/94 DUE TO RECENT
 SNOW & RAIN STARTING
 10/14/94.

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
Sample ID: 2 @ 11'
Project Location: Heath GC G 1 E
Laboratory Number: TPH-1199

Project #:
Date Analyzed: 10-18-94
Date Reported: 10-18-94
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	12,000	200

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	1584	1372	14.34

*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: Separator Pit - B0119

Sharon Vely
Analyst

R. E. O'Neil
Review

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

80119
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PTT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: HEATH GC GIE
Well Name

Location: Unit or Qtr/Qtr Sec I Sec 8 T 29N R 9W County SAN JUAN

Pit Type: Separator Dehydrator X Other

Land Type: BLM , State , Fee , Other Com - AGMT.

Pit Location: Pit dimensions: length 36', width 26', depth 10'
(Attach diagram) Reference: wellhead X, other

Footage from reference: 175'

Direction from reference: 45 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) 0
Greater than 100 feet (0 Points)

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) 0
No (0 points)

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) 0
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 10/19/94

Remediation Method: Excavation ☒ Approx. cubic yards 275
 (Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____

Other RUN THROUGH CRUSHER + MIXED + DILUTED

Remediation Location: Onsite _____ Offsite ☒ AMOCO'S GARAGE Bldg
 (ie. landfarmed onsite, name and location of offsite facility) ROCK CRUSHER

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents

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

Sample depth 7'

Sample date 10/18/94 Sample time 1015

Sample Results

Benzene(ppm) 0.083

Total BTEX(ppm) 24.778

Field headspace(ppm) 1522

TPH 1,024

Ground Water Sample: Yes _____ 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 10/19/94
 SIGNATURE Buddy D. Shaw PRINTED NAME AND TITLE Buddy D. Shaw
Environmental Coordinator

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80119</u> C.D.C. NO: <u>2156</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>HEATH GC</u> WELL #: <u>GIE</u> PIT: <u>DEH4</u>		DATE STARTED: <u>10/18/94</u> DATE FINISHED: _____
QUAD/UNIT: <u>I</u> SEC: <u>8</u> TWP: <u>29N</u> RNG: <u>9W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>NE/4 SE/4</u> CONTRACTOR: <u>P. VELASQUEZ</u>		

EXCAVATION APPROX. <u>36</u> FT. x <u>26</u> FT. x <u>10</u> FT. DEEP.	CUBIC YARDAGE: <u>375</u>
DISPOSAL FACILITY: <u>AMOCO SARCIE B2</u>	REMEDIAL METHOD: <u>ROCK CRUSHER</u>
LAND USE: <u>RIDGE</u>	LEASE: <u>SE-076337</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>175</u> FT. <u>N45E</u> FROM WELLHEAD.	
DEPTH TO GROUNDWATER: <u>7100'</u>	NEAREST WATER SOURCE: <u>71000'</u> NEAREST SURFACE WATER: <u>71000'</u>
NMOC RANKING SCORE: <u>0</u>	NMOC TPH CLOSURE STD: <u>5000</u> PPM

CHECK ONE:

☒ PIT ABANDONED

☐ STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

EXCAVATION CONSIST MOSTLY OF GRAVEL w/ some SAND, ROCKS MOSTLY COBBLE. BOTTOM HARD SANDSTONE, DK. GRAY DISCOLORATION UNABLE TO OBTAIN REPRESENTABLE SAMPLE DUE TO RECENT PRECIPITATION MAKING MOISTURE CONTENT TOO EXTREME.

CLOSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1015	③@7'	TPH-1230	5	20	1:1	256	1,024

SCALE

0 FT

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1@1'	0.0
2@8'	14.7
3@7'	1522
4@6'	7.9
5	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
3@7'	BTEX	1015
PASSED		

PIT PROFILE

TRAVEL NOTES: CALLOUT: <u>10/12/94</u>	ONSITE: <u>10/18/94</u> DUE TO RECENT SNOW & RAIN STARTING 10/14/94
--	---

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:	3 @ 7'	Date Analyzed:	10-18-94
Project Location:	Heath GC G 1 E	Date Reported:	10-18-94
Laboratory Number:	TPH-1200	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1,000	20


ND = Not Detectable at stated detection limits.

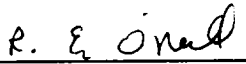
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1024	1044	1.93

*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: Dehydrator Pit - B0119


Analyst


Review

OFF: (505) 325-8786

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: *10/19/94*
Lab ID: *2156*
Sample ID: *3641*
Job No. *2-1000*

Project Name: *Heath GC G 1 E*
Project Location: *3 @ 7' - Dehy. Pit*
Sampled by: *NV* Date: *10/18/94*
Analyzed by: *DLA* Date: *10/19/94*
Sample Matrix: *Soil*

Time: *10:15*

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
<i>Benzene</i>	<i>83</i>	<i>0.2</i>
<i>Toluene</i>	<i>959</i>	<i>0.2</i>
<i>Ethylbenzene</i>	<i>365</i>	<i>0.2</i>
<i>m,p-Xylene</i>	<i>18,824</i>	<i>0.2</i>
<i>o-Xylene</i>	<i>4,547</i>	<i>0.2</i>
	<i>TOTAL 24,778 ug/kg</i>	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

Date:

DLA
10/19/94

P. O. BOX 2606 • FARMINGTON, NM 87499