

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

RISK - iron vulnerability
CC049 equipment

SUBMIT 1 COPY TO
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: OKYDEN LS #39
Well Name _____
Location: Unit or Qtr/Qtr Sec I Sec 21 T 23N R 8W County SAN JUAN
Pit Type: Separator ☒ Dehydrator _____ Other _____
Land Type: BLM ☒ State _____ Fee _____ Other _____

Pit Location: Pit dimensions: length NA, width NA, depth NA
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: _____
Direction from reference: _____ 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) 75
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) 0
Greater than 1000 feet (0 points) _____

RANKING SCORE (TOTAL POINTS): 0

00049 SEP. PIT

Date Remediation Started: _____ Date Completed: 1/26/93

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

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

General Description Of Remedial Action: _____
Excavation, RISK ASSESSED.

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 11' (PIT BOTTOM)

Sample date 1/25/93 Sample time 1150

Sample Results

Benzene(ppm) 14.800

Total BTEX(ppm) 239.000

Field headspace(ppm) 544

TPH 19,000 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 1/26/93

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

C0049

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 832-0815

C.O.C. 2397

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140
PAGE No: 1 of 1LOCATION: LEASE: DRYDEN WELL: LS 34 OD: 1790' FS/93' FEL
SEC: 21 TWP: 28N RNG: 8W BM: CNTY: SAN JUAN ST: NM PIT: SEP PK
CONTRACTOR: E.P.C.
EQUIPMENT USED:DATE STARTED: 1-25-93
DATE FINISHED: 1-25-93ENVIRONMENTAL
SPECIALIST: M.D. + K.J.SOIL REMEDIATION: QUANTITY: —
DISPOSAL FACILITY: IN-SITU TREATMENT
LAND USE: RANGE - BLM
SURFACE CONDITIONS: SEE ASSESSMENT

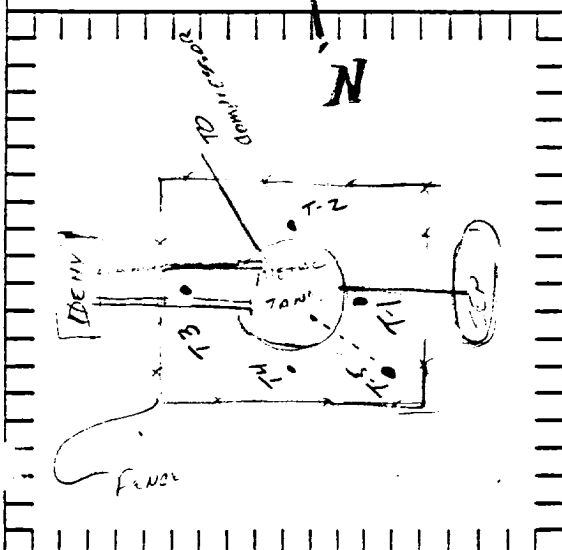
FIELD NOTES & REMARKS:

T-1 TOOK FIRST SAMPLE @ 4' BELOW GROUND SURFACE - SLIGHT DISCOLORATION - GRAYISH DISCOLORATION
@ 5' - SOIL IS SANDY WELL SORTED - P.R. @ 9' - SOIL MIXED CLAY & SAND - LOSS DISCOLORATION
T-1 @ 4' OUM (298 PPM) T-1 @ 7' OUM (721 PPM) T-1 @ 9' OUM (486 PPM)T-2 DISCOLORATION @ APPROX 4.5' - SOIL SAND & WELL SORTED - GRAYISH SOIL - SOIL CONTAINS MOISTURE
@ 6.5' W/ GRAYISH & BLACK DISCOLORATION. AT 9' SOIL IS MOIST SHADY & GRAYISH
T-2 @ 4' OUM (740 PPM) T-2 @ 5' OUM (495 PPM) T-2 @ 9' OUM (746 PPM)T-3 DISCOLORATION @ 4' (GRAYISH IN COLOR) SOIL IS SANDY AND MOIST GRAYISH DISCOLOR CONTINUES
THROUGHOUT TEST HOLE - SOIL IS MIXED CLAY & SAND. GRAYISH CLAY SOIL @ 10'
T-3 @ 5' OUM 819 PPM T-3 @ 10' OUM 519 PPMT-4 SOIL IS SANDY ~~THAT~~ - GRAYISH IN COLOR FROM 4.5' TO 7.5' GRAYISH DISCOLORATION IN SOIL'S
AGAIN @ 8.5' - SOIL IS SHADY - SOME CLAY @ 10' T-4 @ 5' OUM (317 PPM) T-4 @ 10' OUM (520 PPM)T-5 HAD TO GET AT AN ANGLE TO REACH UNDER TANK - SOIL DISCOLORED TO A GRAYISH AS TIME
ALMOST BLACK - SOIL SHADY WELL SORTED. T-5 @ 11' OUM 54 PPM

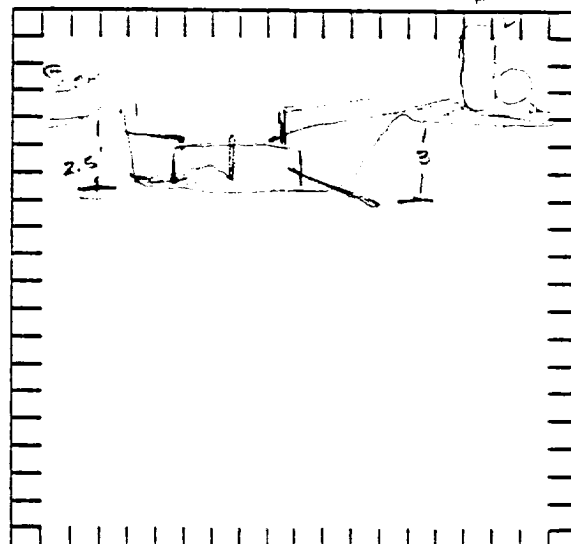
SCALE

FEET
PIT PERIMETER

SCALE

FEET
PIT PROFILESAMPLE
RESULTS

SAMPLE NO.	ANALYTICAL RESULTS
T-1	1STX-TPH @ 4'
T-1	1STX-TPH @ 9'
T-2	BTX-TPH @ 4'
T-2	BTX-TPH @ 9'
T-3	BTX-TPH @ 5'
T-3	BTX-TPH @ 10'
T-4	BTX-TPH @ 5'
T-4	BTX-TPH @ 10'
T-5	BTX-TPH @ 11'



TRAVEL NOTES: CALLOUT: 1-22-93 ONSITE: 1-25-93

Well Name:	Dryden LS #3A
Well Site location:	Unit I, Sec. 21, T28N, R8W
Pit Type:	Separator Pit
Producing Formation:	Mesa Verde
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

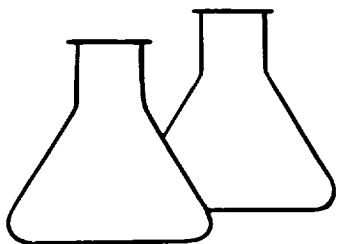
RISK ASSESSMENT (non-vulnerable area)

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Well site located within the **non-vulnerable area** and is approximately 0.4 miles south of the nearest vulnerable area boundary (Carrizo Creek Wash).

(Refer to Cutter Canyon Quadrangle, New Mexico - San Juan County, 7.5 Minute Series (Topographic), Provisional edition 1985, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface vertical impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T-1 @ 4'	Date Reported:	01-26-93
Laboratory Number:	4548	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	6,100	50.0

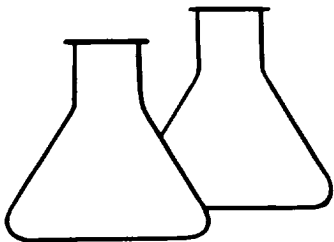
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: CC049
Dryden LS 3A - Sep. Pit

Steve Lettman
Analyst

Neil Samson
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 4'	Date Reported:	01-27-93
Laboratory Number:	4548	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,340	101
Toluene	10,500	121
Ethylbenzene	3,090	40.2
p,m-Xylene	55,400	121
o-Xylene	18,400	80

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	138 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

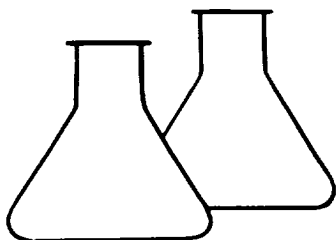
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Dryden LS 3A, Separator Pit, CC049. High surrogate
recovery due to coelution with hydrocarbon.

Ar Chhabra
Analyst

Mari D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

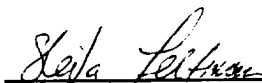
Client:	Amoco	Project #:	92140
Sample ID:	T-1 @ 9'	Date Reported:	01-26-93
Laboratory Number:	4549	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	5,300	50.0

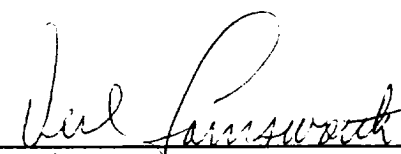
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

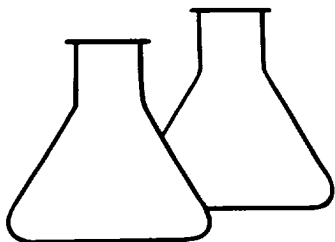
Comments: CC049
Dryden LS 3A - Sep. Pit



Analyst



Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 9'	Date Reported:	01-27-93
Laboratory Number:	4549	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	8,000	96
Toluene	58,600	115
Ethylbenzene	20,600	38.5
p,m-Xylene	103,800	115
o-Xylene	54,500	77

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	143 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

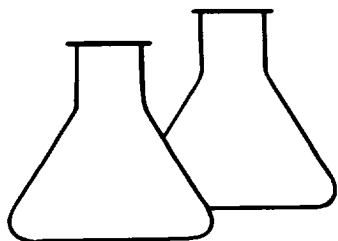
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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Comments: Dryden LS 3A, Separator Pit, CC049. High surrogate
recovery due to coelution with hydrocarbon.

Be Chahaling
Analyst

Morris D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T-2 @ 4'	Date Reported:	01-26-93
Laboratory Number:	4550	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	1,300	10.0

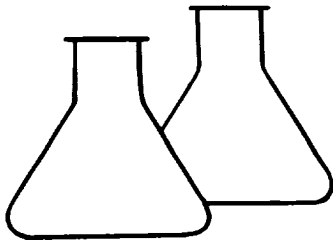
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: CC049
Dryden LS 3A - Sep. Pit

Steve LeHane
Analyst

Marianne Young
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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ 4'	Date Reported:	01-27-93
Laboratory Number:	4550	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	111	97
Toluene	316	117
Ethylbenzene	73	39.0
p,m-Xylene	463	117
o-Xylene	401	78

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	106 %
	Bromfluorobenzene	103 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

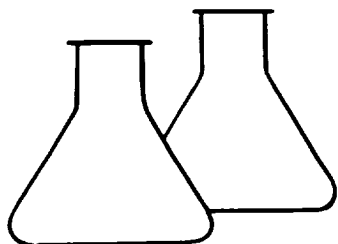
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

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Comments: Dryden LS 3A, Separator Pit, CC049.

Ar Chahabaz
Analyst

Morris D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T-2 @ 9'	Date Reported:	01-26-93
Laboratory Number:	4551	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	750	10.0

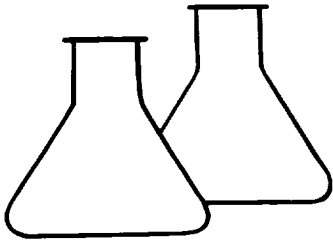
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: CC049
Dryden LS 3A - Sep. Pit

Steve Lettman
Analyst

Morris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T2 @ 9'	Date Reported:	01-27-93
Laboratory Number:	4551	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	22,900	94
Toluene	101,100	113
Ethylbenzene	19,500	37.7
p,m-Xylene	16,200	113
o-Xylene	58,400	75

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	120 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

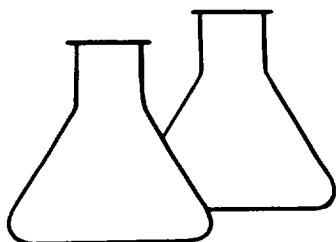
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Dryden LS 3A, Separator Pit, CC049.

A. Chahar
Analyst

M. D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T-3 @ 5'	Date Reported:	01-26-93
Laboratory Number:	4552	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	17,600	100.0

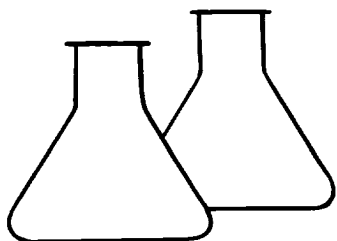
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: CC049
Dryden LS 3A - Sep. Pit

Shirley L. Linn
Analyst

Morris D. Young
Review



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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ 5'	Date Reported:	01-27-93
Laboratory Number:	4552	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	20,400	98
Toluene	101,700	118
Ethylbenzene	20,300	39.3
p,m-Xylene	23,300	118
o-Xylene	78,200	79

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	142 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

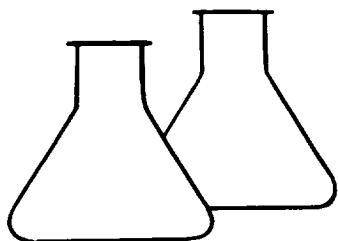
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Dryden LS 3A, Separator Pit, CC049. High surrogate
recovery due to coelution with hydrocarbon.

Cee Chhabang
Analyst

Marissa D. Young
Review



ENVIROTECH LABS

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T-3 @ 10'	Date Reported:	01-26-93
Laboratory Number:	4553	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	1,480	10.0

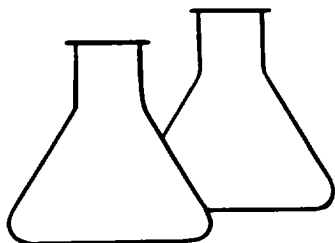
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: CC049
Dryden LS 3A - Sep. Pit

Shela L. L. L.
Analyst

Marvin D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ 10'	Date Reported:	01-27-93
Laboratory Number:	4553	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	7,200	80
Toluene	50,300	160
Ethylbenzene	10,400	60
p,m-Xylene	70,300	140
o-Xylene	25,100	80

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	174 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

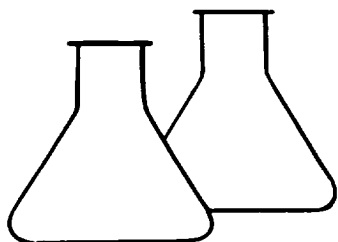
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Dryden LS 3A, Separator Pit, CC049. High surrogate
recovery due to coelution with hydrocarbon.

Acc Chahar
Analyst

Merrill D Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T-4 @ 5'	Date Reported:	01-26-93
Laboratory Number:	4554	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	13,600	100.0

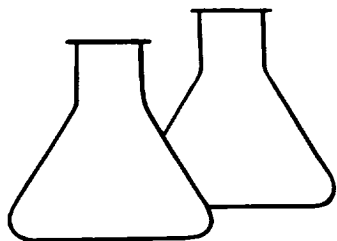
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: CC049
Dryden LS 3A - Sep. Pit

Julia L. Hawn
Analyst

Morris D. Young
Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T4 @ 5'	Date Reported:	01-27-93
Laboratory Number:	4554	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,060	115
Toluene	3,500	229
Ethylbenzene	2,660	86
p,m-Xylene	9,400	201
o-Xylene	3,780	115

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	115 %
	Bromfluorobenzene	124 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

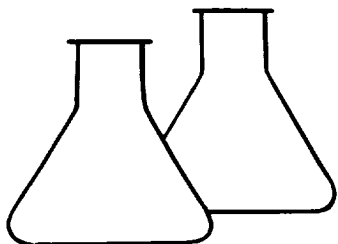
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Dryden LS 3A, Separator Pit, CC049.

A. Chaharlang
Analyst

M. D. Young
Review



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

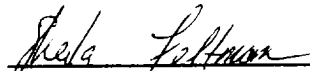
Client:	Amoco	Project #:	92140
Sample ID:	T-4 @ 10'	Date Reported:	01-26-93
Laboratory Number:	4555	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	426	10.0

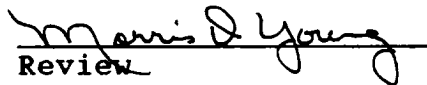
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

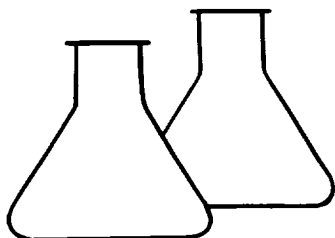
Comments: CC049
Dryden LS 3A - Sep. Pit



Analyst



Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T4 @ 10'	Date Reported:	01-26-93
Laboratory Number:	4555	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	294	78
Toluene	85,600	156
Ethylbenzene	26,300	58
p,m-Xylene	37,800	136
o-Xylene	68,200	78

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	214 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

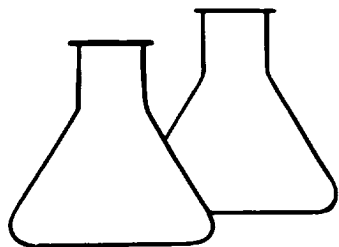
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Dryden LS 3A, Separator Pit, CC049. High surrogate
recovery due to coelution with hydrocarbon.

A. Chaharlang
Analyst

Mavis D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T-5 @ 11'	Date Reported:	01-26-93
Laboratory Number:	4556	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Analyzed:	01-26-93
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	19,000	100.0

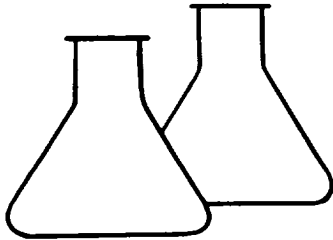
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: CC049
Dryden LS 3A - Sep. Pit

Neil L. Hauer
Analyst

Morris D. Young
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	T5 @ 11'	Date Reported:	01-27-93
Laboratory Number:	4556	Date Sampled:	01-25-93
Sample Matrix:	Soil	Date Received:	01-25-93
Preservative:	Cool	Date Extracted:	01-26-93
Condition:	Cool & Intact	Date Analyzed:	01-26-93
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	14,800	79
Toluene	77,400	158
Ethylbenzene	16,400	59
p,m-Xylene	92,200	138
o-Xylene	38,200	79

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromfluorobenzene	177 %

Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Dryden LS 3A, Separator Pit, CC049. High surrogate
recovery due to coelution with hydrocarbon.

A. Chaharlang
Analyst

M. J. Young
Review

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location (SEP. PT)		ANALYSIS/PARAMETERS										C1049	
T-1 @ 4' 92140		DRYDEN LS BA													
Sampler: (Signature)		Chain of Custody Tape No.		Lab Number		Sample Matrix		No. of Containers		TPH 418.1		GTEX 5020		Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix											
T-1 @ 4'	1-25-93	0900	4548	Soil											
T-1 @ 9'	1-25-93	0925	4549	Soil											
T-2 @ 4'	1-25-93	0945	4550	Soil											
T-2 @ 9'	1-25-93	1010	4551	Soil											
T-3 @ 5'	1-25-93	1020	4552	Soil											
T-3 @ 10'	1-25-93	1044	4553	Soil											
T-4 @ 5'	1-25-93	1050	4554	Soil											
T-4 @ 10'	1-25-93	1120	4555	Soil											
T-5 @ 11'	1-25-93	1150	4556	Soil											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time					
Relinquished by: (Signature)		1-25-93		1330		Linda Pinder		1-25-93		1330					
Relinquished by: (Signature)						Received by: (Signature)									
Relinquished by: (Signature)						Received by: (Signature)									

ENVIROTECH INC.
 5796 U.S. Highway 64-3014
 Farmington, New Mexico 87401
 (505) 632-0615

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>TC049</u> C.O.C. NO: <u>ANAITAS</u> <u>15439</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: <u>DRYDEN LS 3A</u>	LEASE: <u>NM-012200</u>	DATE STARTED: <u>5-15-96</u>
QUAD/UNIT: <u>I SEC: 21 TWP: 28 N RNG: 8 W</u> BM: N.M. CNTY: S.J. ST: N.M.		DATE FINISHED: <u>11-19-97</u>
QTR/FOOTAGE: <u>1790' FSL. 950' FEL.</u>	CONTRACTOR: <u>EPC</u>	ENVIRONMENTAL SPECIALIST: <u>R.E.D./NV/EP</u>

SOIL REMEDIATION:

REMEDATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 50

LAND USE: RANGE

FIELD NOTES & REMARKS:

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

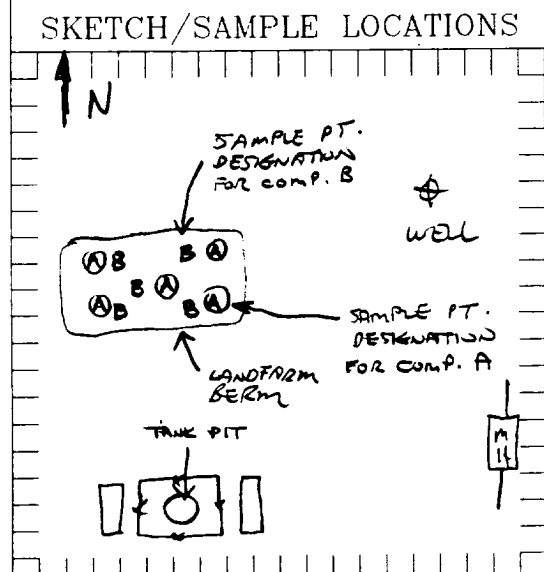
NMOCB PANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

SOIL CONSISTS OF DRY, BROWN, SILTY SAND - LIGHT STAIN, NO ODOOR.

11/19/97 - SOIL SIMILAR TO DESCRIPTION ABOVE, COLLECTED 5 PT. COMPOSITE FOR LAB ANALYSIS.

FIELD 418.1 CALCULATIONS

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



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)
comp. A	0
COMP B	0.0

SAMPLE ID	ANALYSIS	TIME	RESULTS
comp. A	8015	1035	4650
COMP B	8015	1120	37.4

TRAVEL NOTES: CALLOUT: NA ONSITE: 5-15-96 1030 11/19/97

FORM REVISED 4/96

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

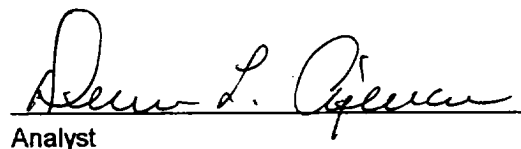
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	Comp. B	Date Reported:	11-25-97
Laboratory Number:	C532	Date Sampled:	11-19-97
Chain of Custody No:	5439	Date Received:	11-20-97
Sample Matrix:	Soil	Date Extracted:	11-21-97
Preservative:	Cool	Date Analyzed:	11-24-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

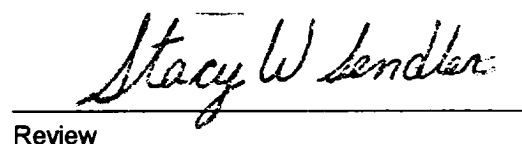
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	37.4	0.1
Total Petroleum Hydrocarbons	37.4	0.2

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: Dryden LS # 3A Landfarm. 5 Pt. Composite.


Analyst


Review

[illegible]