

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III
DEPUTY OIL & GAS INSPECTOR

1000 Rio Brazos Rd, Aztec, NM 87410

JAN 13 97

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

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JOHNSON GAS Com 'D' #1
Well Name

Location: Unit or Qtr/Qtr Sec 6 Sec 15 T 30 N R 12 W County SAN JUAN

Pit Type: Separator Dehydrator Other BLOW

Land Type: BLM , State , Fee , Other COM. AGMT.

Pit Location: Pit dimensions: length 65', width 26', depth 5'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 288

Direction from reference: 40 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) 20

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) 20

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) 10

RANKING SCORE (TOTAL POINTS): 50

Date Remediation Started: _____ Date Completed: 6-23-94

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

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

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No X 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 5'

Sample date 6-23-94 Sample time _____

Sample Results

Benzene(ppm) 0.3

Total BTEX(ppm) 0.6

Field headspace(ppm) 150

TPH 213

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 7/14/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

C.B. @ 7': TPH = 94, B = ND, BTEX = 0.5 PPM
E. WALL @ 5': TPH = 213, B = 0.3, BTEX = 0.6 PPM

CLIENT: Amoco

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT NO: C4141-1

C.E.C. NO: 3774

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: NAME: Johnson Gas Com "D" WELL #: No. 1 PIT: BLOWN

DATE STARTED: 6/23/94

QUAD/UNIT: SW 1/4 NE 1/4 SEC. 15 TWP. 30N RNG. 12W BM: NMPM CNTY: SJ ST: NM

DATE FINISHED: 6/23/94

QTR/FOOTAGE: 96' @ N40°W CONTRACTOR: ENVIROTECH

ENVIRONMENTAL SPECIALIST: PMJ/cp

SOIL REMEDIATION: EXCAVATION APPROX. 65' FT. x 26' FT. x 3'-7' FT. DEEP.

DISPOSAL FACILITY: APC Landfarm - Crouch Mesa CUBIC YARDAGE: UNKNOWN

LAND USE: RURAL RESIDENTIAL LEASE: _____

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 96' @ N40°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: 20'-30' NEAREST WATER SOURCE: UNKNOWN NEAREST SURFACE WATER: 700-800'

NMOC D RANKING SCORE: _____ NMOC D TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION: Penetrated to bedrock on bottom of excavation.

Bedrock is discolored gray in top 1"-2", turning to pale yellowish brown @ 72" deep.

The majority of contamination appears to have been removed
Remedial Closure Pending Lab Results.

FIELD 418.1 CALCULATIONS

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

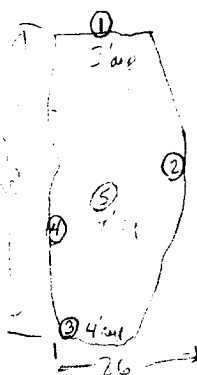
SCALE



FEET
PIT PERIMETER

OV
RESULTS

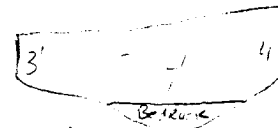
PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 3'	1.0
2 @ 5'	150.2
3 @ 4'	7.8
4 @ 7'	5.9
5 @ 7'	27.1

LAB SAMPLES

C.B. @ 7' 415.1
E. WALL @ 5' BTEX 115.1



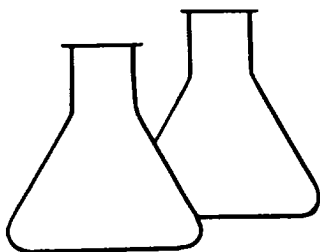
5' @ 5' bgs:
SP. Poorly graded sand with interbedded
siltstone nodules. Dry, Moderate
yellowish brown, No. Cohesive
5'-7' Bedrock

TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____





ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

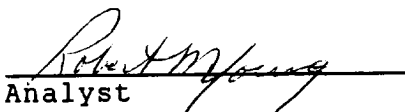
Client:	Amoco	Project #:	92140
Sample ID:	CB @ 7'	Date Sampled:	06-23-94
Laboratory Number:	7663	Date Received:	06-23-94
Sample Matrix:	Soil	Date Analyzed:	06-26-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

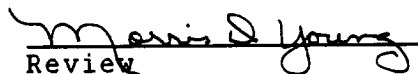
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	94	30.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

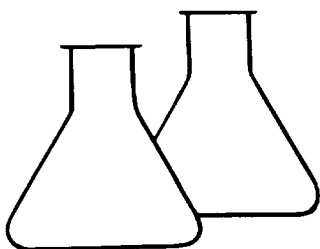
Method: Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and
Waste, USEPA Storet No.4551, 1978

Comments: Johnson GC D-1 Blow Pit C4141-1


Analyst


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:	CB @ 7'	Date Reported:	07-05-94
Laboratory Number:	7663	Date Sampled:	06-23-94
Sample Matrix:	Soil	Date Received:	06-23-94
Preservative:	Cool	Date Extracted:	06-26-94
Condition:	Cool & Intact	Date Analyzed:	06-30-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	26.7
Toluene	127	20.0
Ethylbenzene	28.3	13.3
p,m-Xylene	256	20.0
o-Xylene	121	13.3

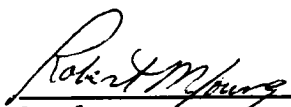
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	115 %
	Bromofluorobenzene	103 %

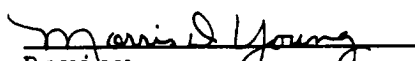
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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

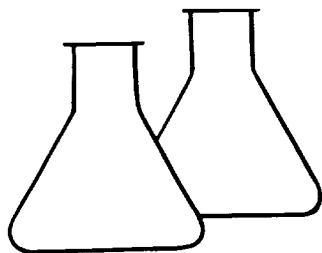
ND - Parameter not detected at the stated detection limit.

Comments: Johnson Gas Com "D" #1 Blow Pit C4141-1


Analyst


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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:	E. Wall @ 5'	Date Sampled:	06-23-94
Laboratory Number:	7664	Date Received:	06-23-94
Sample Matrix:	Soil	Date Analyzed:	06-26-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	213	30.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

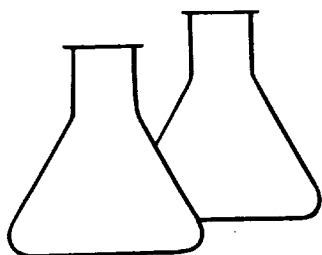
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Johnson GC D-1 Blow Pit C4141-1

Robert M. Young
Analyst

Morris D. Young
Review





ENVIROTECH LABS

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

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	E. WALL @ 5'	Date Reported:	07-05-94
Laboratory Number:	7664	Date Sampled:	06-23-94
Sample Matrix:	Soil	Date Received:	06-23-94
Preservative:	Cool	Date Extracted:	06-26-94
Condition:	Cool & Intact	Date Analyzed:	06-30-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	347	27.0
Toluene	127	20.3
Ethylbenzene	92	13.5
p,m-Xylene	36.0	20.3
o-Xylene	ND	13.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromofluorobenzene	94 %

Method: 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. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Johnson Gas Com "D" #1 Blow Pit C4141-1

Robert M. Young
Analyst

Mari S. Young
Review



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

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1000 Rio Brazos Rd, Aztec, NM 87410

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Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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AND 1 COPY TO
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PIT REMEDIATION AND CLOSURE REPORT

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JOHNSON GAS Com 'D' #1
Well Name

Location: Unit or Qtr/Qtr Sec 6 Sec 15 T30N R12W County SAN JUAN

Pit Type: Separator X Dehydrator Other

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

Pit Location: Pit dimensions: length 100', width 40', depth 6'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 175

Direction from reference: 30 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) 20

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) 20
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)
Greater than 1000 feet (0 points) 10

RANKING SCORE (TOTAL POINTS): 50

Date Remediation Started: _____ Date Completed: 6-27-94

Remediation Method: Excavation ☒ Approx. cubic yards 800
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

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

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 @ 5'

Sample date 6-27-94 Sample time _____

Sample Results

Benzene (ppm) 0.03

Total BTEX (ppm) 18.0

Field headspace (ppm) 886

TPH 750

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 7/14/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

⑤ @ 5' : TPA = NA

PIT NO: C4141-04

C.D.C. NO: 3782

JOB No: 92143

PAGE No: 1 of 1

DATE STARTED: 6/27/94

DATE FINISHED: 6/27/71

ENVIRONMENTAL
SPECIALIST: Pross

DISPOSAL FACILITY: APC Landfarm - Crouch Mesa

LAND USE: Rural Residential

DEPTH TO GROUNDWATER: 36'-40' NEAREST SURFACE WATER: 700' - 800' NEAREST WATER SOURCE: 7/10/20'

NMOC Ranking Score: _____ NMOC TPH Closure Std: 100 PPM

BOTTOM OF EXCAVATION IS WELL CONSOLIDATED BEDROCK, TOO HARD TO SAMPLE.

The only Visible Contamination in this Pit is an area approximately 2'-3' high extending from (3) to the Southeast corner of the excavations. Contamination in this area is in the 2'-3' zone. The Sample Area No Visible Contamination in trench area.

FIELD 418.1 CALCULATIONS

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

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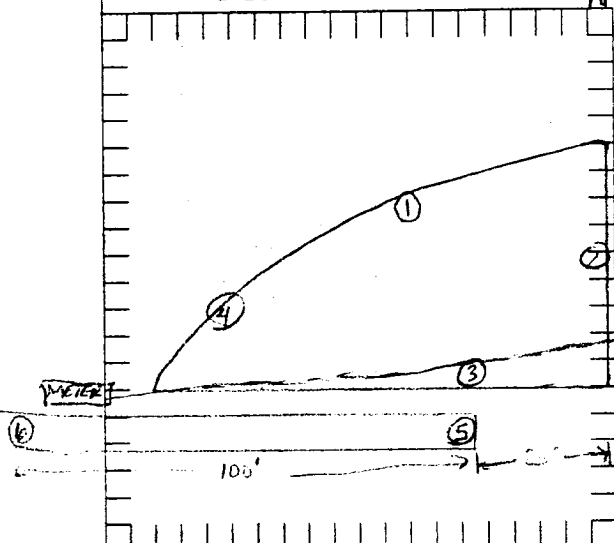
0 10 20 FEET

PIT PERIMETER

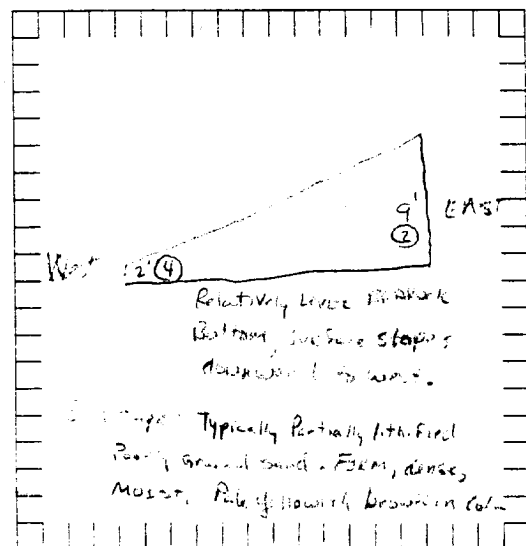
Suspected
by our informant
(surface also)

OVM RESULTS

PIT PROFILE

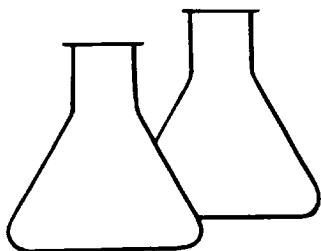


SAMPLE ID	FIELD HEADSPACE PID (ppm)
193'	627.
209'	715.
305'	896
402'	7.9
505'	2.1
603'	2.8
604'	
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698'	
699'	
700'	



TRAVEL NOTES: _____
CALLOUT: _____ ONSITE: _____





ENVIROTECH LABS

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

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

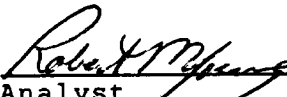
Client:	Amoco	Project #:	92140
Sample ID:	3 @ 5'	Date Sampled:	06-27-94
Laboratory Number:	7668	Date Received:	06-27-94
Sample Matrix:	Soil	Date Analyzed:	07-09-94
Preservative:	Cool	Date Reported:	07-09-94
Condition:	Cool and Intact	Analysis Needed:	TPH

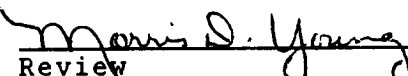
Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	750	30.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

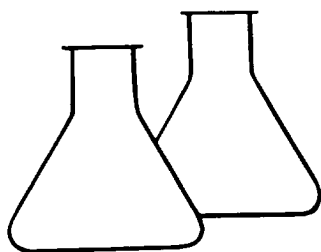
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Johnson GC D No.1 Separator Pit C4141-04


Analyst


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:	3 @ 5'	Date Reported:	07-13-94
Laboratory Number:	7668	Date Sampled:	06-27-94
Sample Matrix:	Soil	Date Received:	06-27-94
Preservative:	Cool	Date Extracted:	07-01-94
Condition:	Cool & Intact	Date Analyzed:	07-11-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	26.7	20.2
Toluene	456	26.9
Ethylbenzene	1270.0	40.4
p,m-Xylene	13900	60.6
o-Xylene	2370	47.1

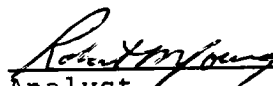
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	125 %
	Bromofluorobenzene	137 %

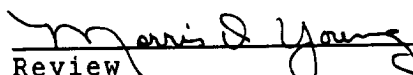
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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

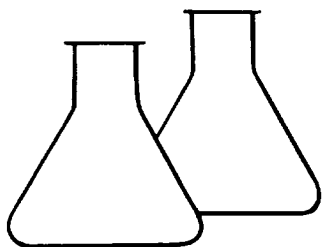
ND - Parameter not detected at the stated detection limit.

Comments: Johnson Gas Com "D" #1 Separator Pit C4141-4
Excessive surrogate recovery due to coelution.


Analyst


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ENVIROTECH LABS

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

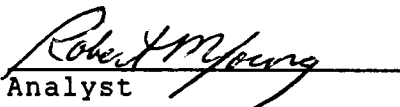
Client:	Amoco	Project #:	92140
Sample ID:	5 @ 5'	Date Sampled:	06-27-94
Laboratory Number:	7669	Date Received:	06-27-94
Sample Matrix:	Soil	Date Analyzed:	07-09-94
Preservative:	Cool	Date Reported:	07-09-94
Condition:	Cool and Intact	Analysis Needed:	TPH

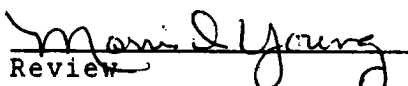
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	ND	30.0

ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Johnson GC D No.1 Separator Pit C4141-04


Analyst


Review

