

NM2 - 10

**MONITORING
REPORTS
YEAR(S):**

2007

October 9, 2007

RECEIVED

2007 OCT 17 AM 11 36

Mr. Wayne Price
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico, 87505

CERTIFIED MAIL 7005 1820 0001 6170 6947

RE: Second Quarter Sampling at Giant Industries Arizona, Inc. Centralized Surface Waste Management Landfarm Facility NM -02-0010

Dear Mr. Price,

On June 28, 2007, Lodestar Services, Inc. collected second quarter samples from Giant Industries Arizona, Inc.'s landfarm, permit number NM-02-0010, located in the NW/4 SE/4 of Section 16, Township 25 North, Range 12 West, NMPM, San Juan County, NM. One crude cell sample and one API cell sample was collected as shown on Figure 1. Each sample was collected using a hand powered auger from three feet beneath native ground surface. Each sample was placed in an eight ounce glass jar and stored on ice during shipping to Pinnacle Laboratories in Albuquerque, NM. Strict chain-of-custody procedures were followed during shipping. Pinnacle laboratories analyzed the samples for the following constituents: total petroleum hydrocarbons, benzene, toluene, ethyl benzene, and xylenes.

No target analytes were detected in the samples. Laboratory reports are included for your review.

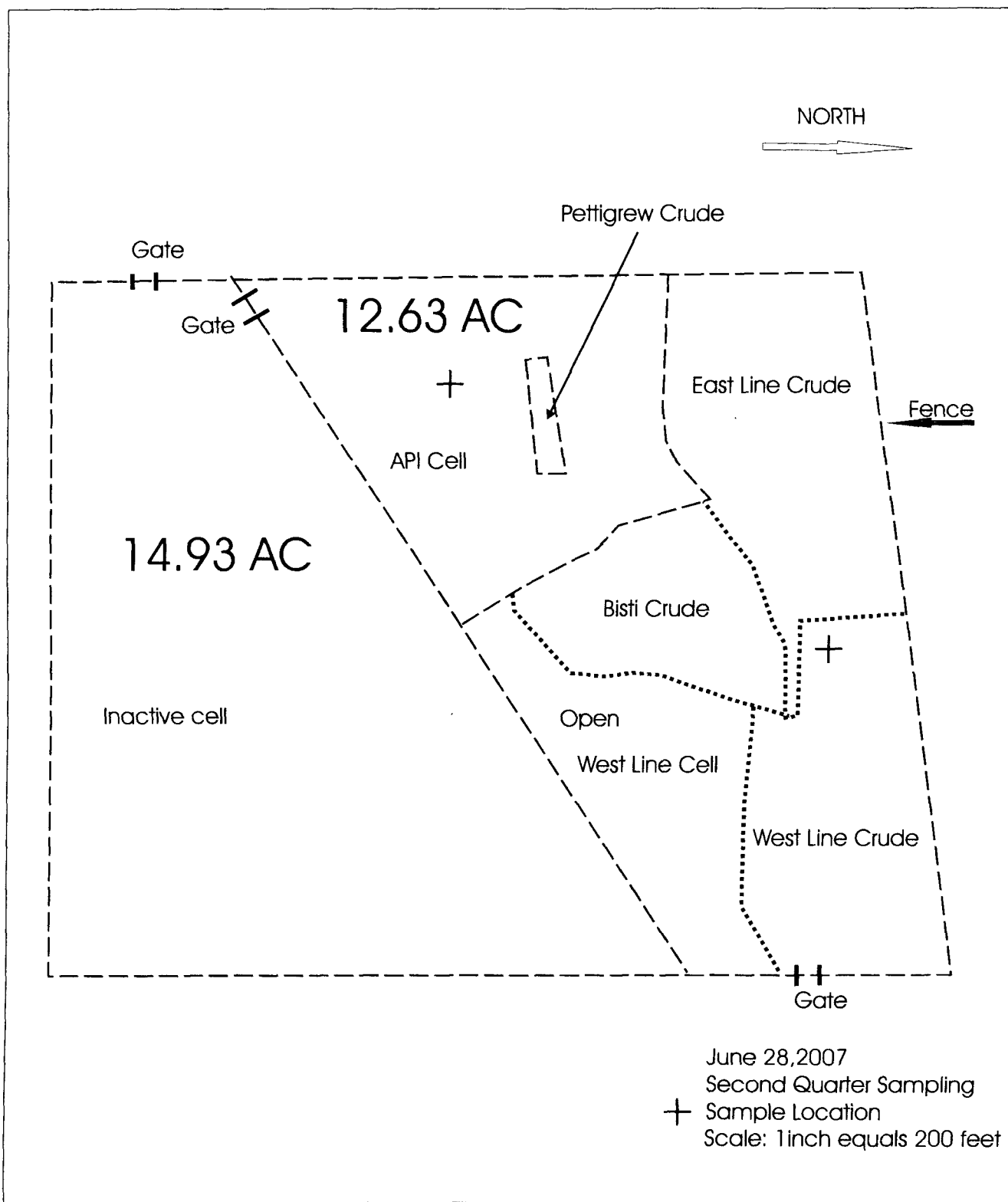
Should you have any questions or require additional information please do not hesitate to call me at (505) 632-4077.

Respectfully Submitted,
Giant Industries Arizona, Inc.

 for Bill Robertson

Bill Robertson
Safety, Environmental & Regulatory Manager

Cc. Mr. Dave Richards, Giant
Mr. Carlos Guerra, Giant
Ms. Ann Allen, Western Refining Company, L.P.
File




 Lodestar Services, Inc
 PO Box 3861
 Farmington, NM 87499

Landfarm Cell Diagram

Figure 1

Drawn By MJN 10/9/07
 Cell dimensions are based on
 GPS Survey Completed 3/31/06



Pinnacle Lab ID number **706199**
August 03; 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name LANDFARM
Project Number (NONE)

Attention: MARTIN NEE/BILL ROBERTSON

On 06/29/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Due to a log-in error, the samples were not extracted and analyzed until hold-time was exceeded. There will be no charge for these analyses.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

A handwritten signature in black ink, appearing to read "H. Mitchell Rubenstein".

H. Mitchell Rubenstein, Ph.D.
General Manager, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

CLIENT	: LODESTAR	PINNACLE ID	: 706199
PROJECT #	: (NONE)	DATE RECEIVED	: 06/29/2007
PROJECT NAME	: LANDFARM	REPORT DATE	: 08/03/2007
PINNACLE			DATE
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
706199 - 01	API CELL	NON-AQ	06/28/2007
706199 - 02	WEST LINE CELL	NON-AQ	06/28/2007

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
 CLIENT : LODESTAR
 PROJECT # : (NONE)
 PROJECT NAME : LANDFARM

PINNACLE I.D. : 706199
 ANALYST : DRK

SAMPLE		DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	API CELL	NON-AQ	06/28/2007	07/17/07H1	07/23/07H1	1
02	WEST LINE CELL	NON-AQ	06/28/2007	07/17/07H1	07/23/07H1	1
PARAMETER	DET. LIMIT	UNITS	API CELL	WEST LINE CELL		
FUEL HYDROCARBONS	10	MG/KG	< 10	< 10		
HYDROCARBON RANGE			C6-C10	C6-C10		
HYDROCARBONS QUANTITATED USING			GASOLINE	GASOLINE		
BENZENE	0.025	MG/KG	< 0.025	< 0.025		
TOLUENE	0.025	MG/KG	< 0.025	< 0.025		
ETHYLBENZENE	0.025	MG/KG	< 0.025	< 0.025		
TOTAL XYLENES	0.10	MG/KG	< 0.10	< 0.10		
SURROGATE:						
BROMOFLUOROBENZENE (%)			100	103		
SURROGATE LIMITS (65 - 120)						

CHEMIST NOTES:

H1 = Sample was extracted and run past the 14 day hold time.

GAS CHROMATOGRAPHY RESULTS EXTRACTION BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 706199
BLANK I.D.	: 071707GS	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/23/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	ANALYST	: DRK

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/KG	<10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.10
SURROGATE:		
BROMOFLUOROBENZENE (%)		108
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:

GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 706199
BATCH ID	: 071707GS	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/23/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.09	109	1.17	117	7	(68 - 120)	20
TOLUENE	<0.025	1.00	0.948	95	1.00	100	6	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.02	102	1.08	108	5	(49 - 127)	20
TOTAL XYLENES	<0.10	3.00	2.92	97	3.10	103	6	(58 - 120)	20

CHEMIST NOTES:

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 706199
SAMPLE ID	: 707058-07	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/23/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.02	102	1.10	110	7	(68 - 120)	20
TOLUENE	<0.025	1.00	0.889	89	0.960	96	8	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	0.988	99	1.04	104	5	(49 - 127)	20
TOTAL XYLENES	<0.10	3.00	2.86	95	2.96	99	4	(58 - 120)	20

CHEMIST NOTES:

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 706199
BATCH ID	: 072307B	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/23/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	UNITS	: MG/KG

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	100	92.5	92	92.2	92	0	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING GASOLINE									

CHEMIST NOTES:
N/A

% Recovery = $\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$

RPD (Relative Percent Difference) = $\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 706199
SAMPLE ID	: 707058-07	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/23/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	100	92.8	93	93.1	93	0	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING GASOLINE									

CHEMIST NOTES:
N/A

% Recovery = $\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$

RPD (Relative Percent Difference) = $\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
 CLIENT : LODESTAR
 PROJECT # : (NONE)
 PROJECT NAME : LANDFARM

PINNACLE I.D. : 706199
 ANALYST : DRK

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	API CELL	NON-AQ	06/28/2007	07/17/07-H1	07/22/2007	1
02	WEST LINE CELL	NON-AQ	06/28/2007	07/17/07-H1	07/22/2007	1
PARAMETER		DET. LIMIT	UNITS	API CELL	WEST LINE CELL	
FUEL HYDROCARBONS, C10-C22		10	MG/KG	< 10	< 10	
FUEL HYDROCARBONS, C22-C36		10	MG/KG	< 10	< 10	

SURROGATE:

O-TERPHENYL (%)

116

131-S2

SURROGATE LIMITS (70-130)

CHEMIST NOTES:

S2 = Surrogate does not meet PLI criteria - high.

H1 = Sample was extracted past the 14 day hold time.

GAS CHROMATOGRAPHY RESULTS
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 706199
BLANK I.D.	: 071707FS	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/21/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	ANALYST	: DRK

PARAMETER	UNITS	
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:
O-TERPHENYL (%) 114
SURROGATE LIMITS (70-130)

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY RESULTS
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 706199
BLANK I.D.	: 071707FS	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/22/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	ANALYST	: DRK

PARAMETER	UNITS	
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:
O-TERPHENYL (%) 122
SURROGATE LIMITS (70-130)

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 706199
BATCH ID	: 071707FS	DATE EXTRACTED	: 07/17/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 07/21/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: LANDFARM	UNITS	: MG/KG

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED BLANK	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	232	116	235	118	1	(75-125)	20
HYDROCARBON RANGE	C10-C32								
HYDROCARBONS QUANTITATED USING DIESEL FUEL									

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)				PINNACLE I.D.	:	706199		
SAMPLE ID	: 707064-13				DATE EXTRACTED	:	07/17/2007		
CLIENT	: LODESTAR				DATE ANALYZED	:	07/21/2007		
PROJECT #	: (NONE)				SAMPLE MATRIX	:	NON-AQ		
PROJECT NAME	: LANDFARM				UNITS	:	MG/KG		
	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
FUEL HYDROCARBONS	<10	200	181	91	225	112	21-M3	(70-130)	20
HYDROCARBON RANGE	C10-C32								
HYDROCARBONS QUANTITATED USING DIESEL FUEL									

CHEMIST NOTES:

M3 = RPD is outside of PLI criteria.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

CHAIN OF CUSTODY

DATE 6/28/ PAGE:

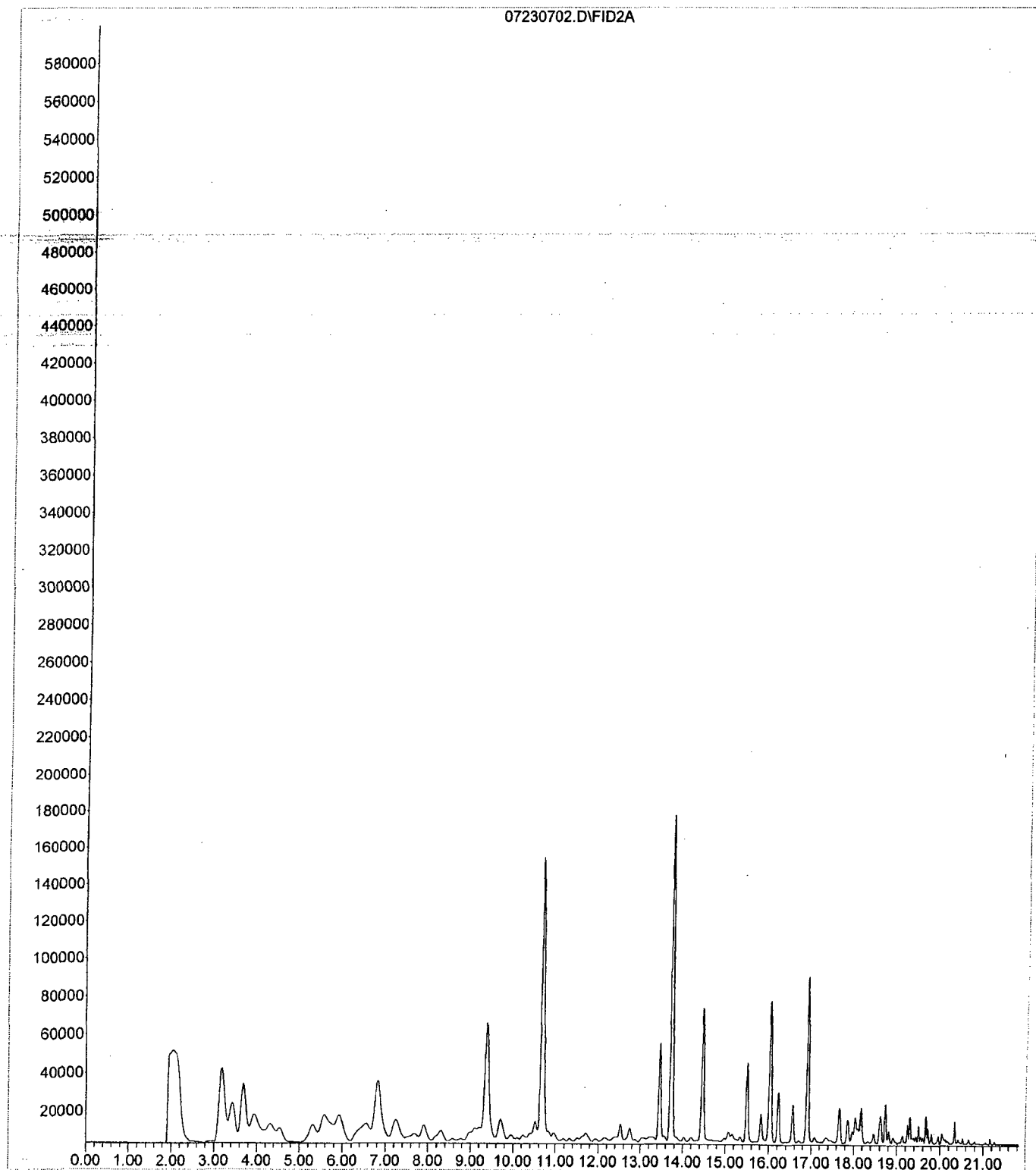
7/16/99

[illegible]

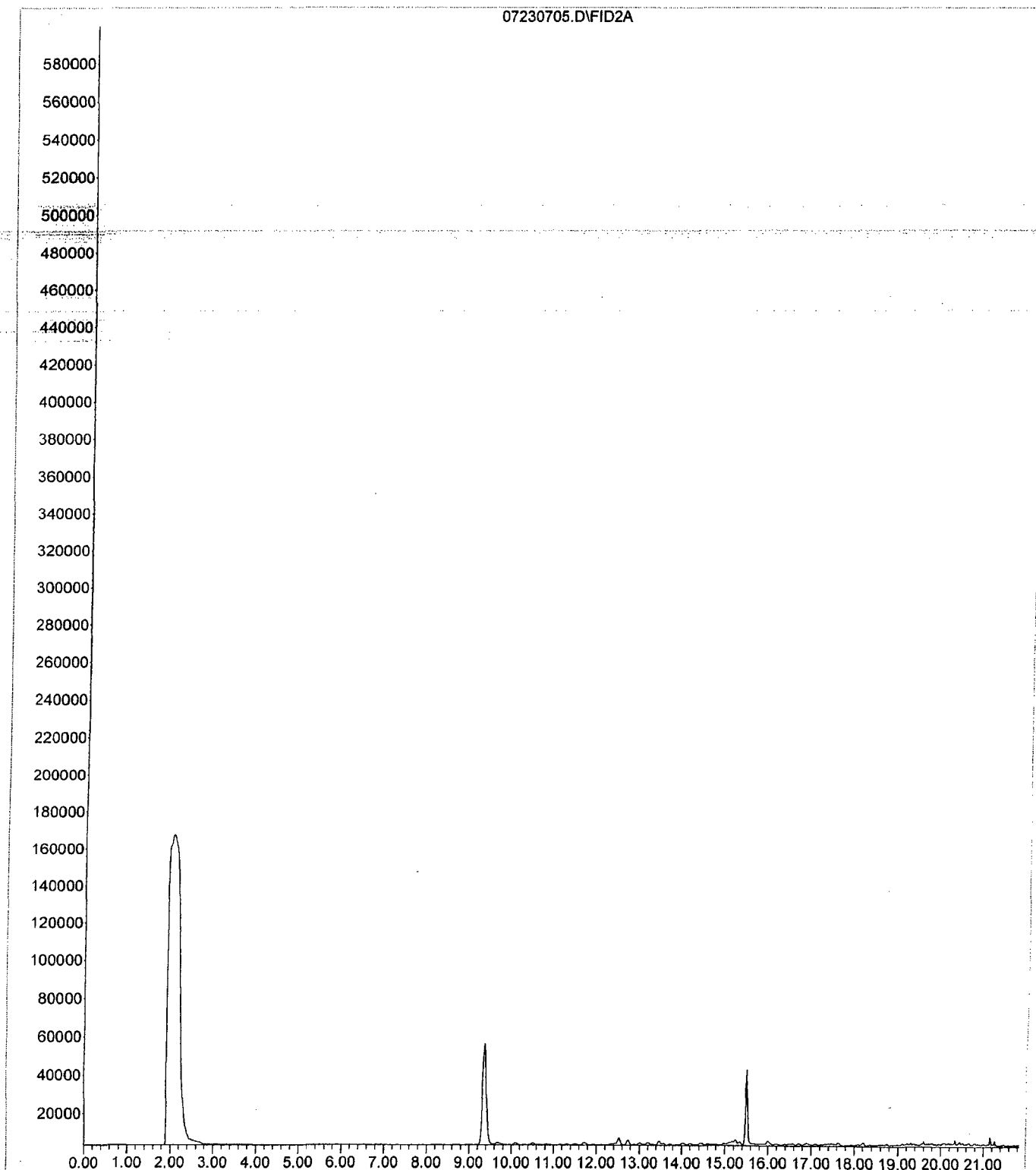
July, 2003 PJI Inc.: Pinnacle Laboratories, Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-4413 • Fax (505) 344-3777 • E-mail: PINLAB@ATT.NET

DISTRIBUTION: White - PLJ, Canary - Originator

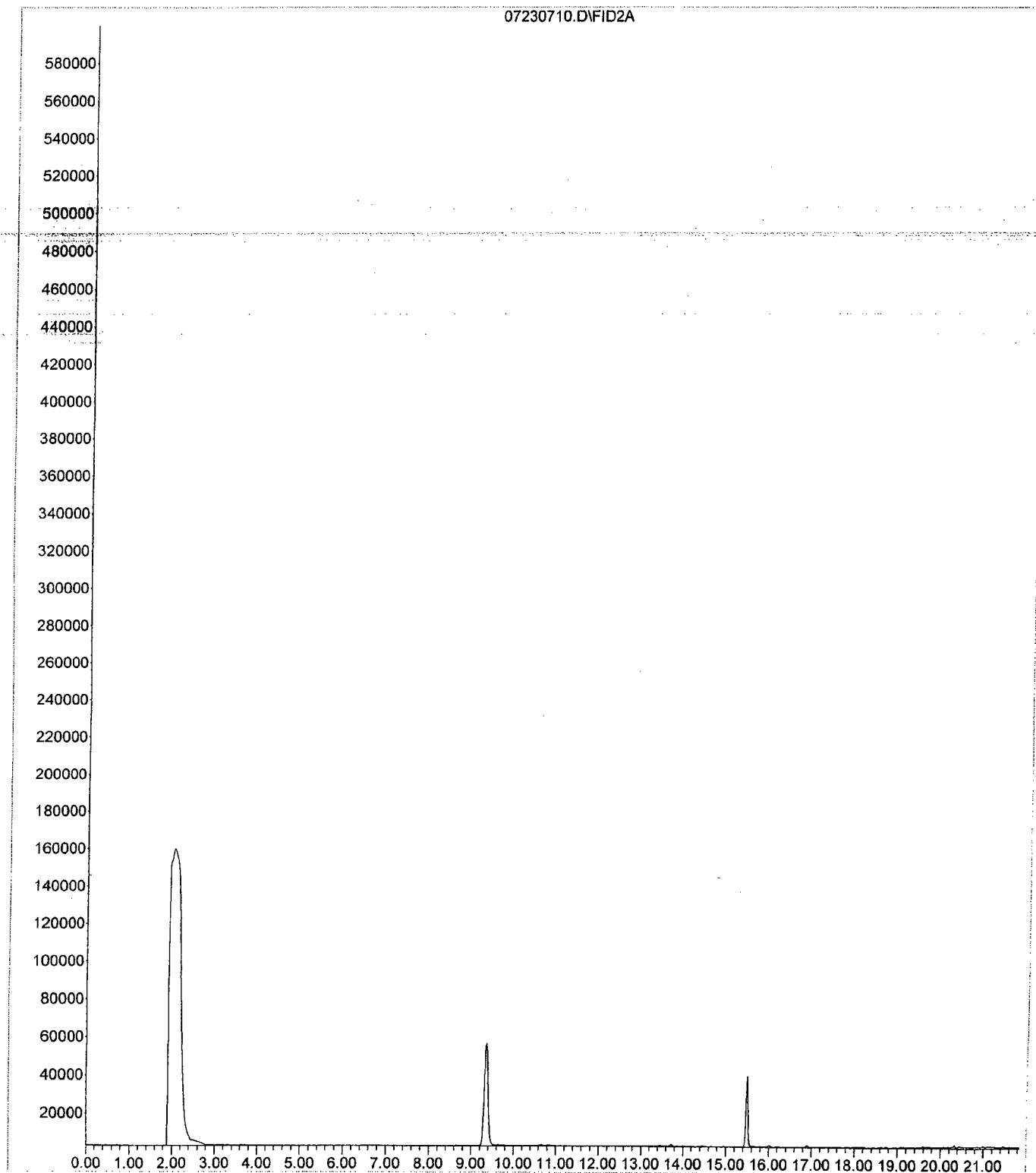
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Operator : DRK
Acquired : 23 Jul 2007 9:34 am using AcqMethod BG071307.M
Instrument : GC-2 PID/
Sample Name: GRO CCV/LCS
Misc Info : 10UL MS5-50-02
Vial Number: 2



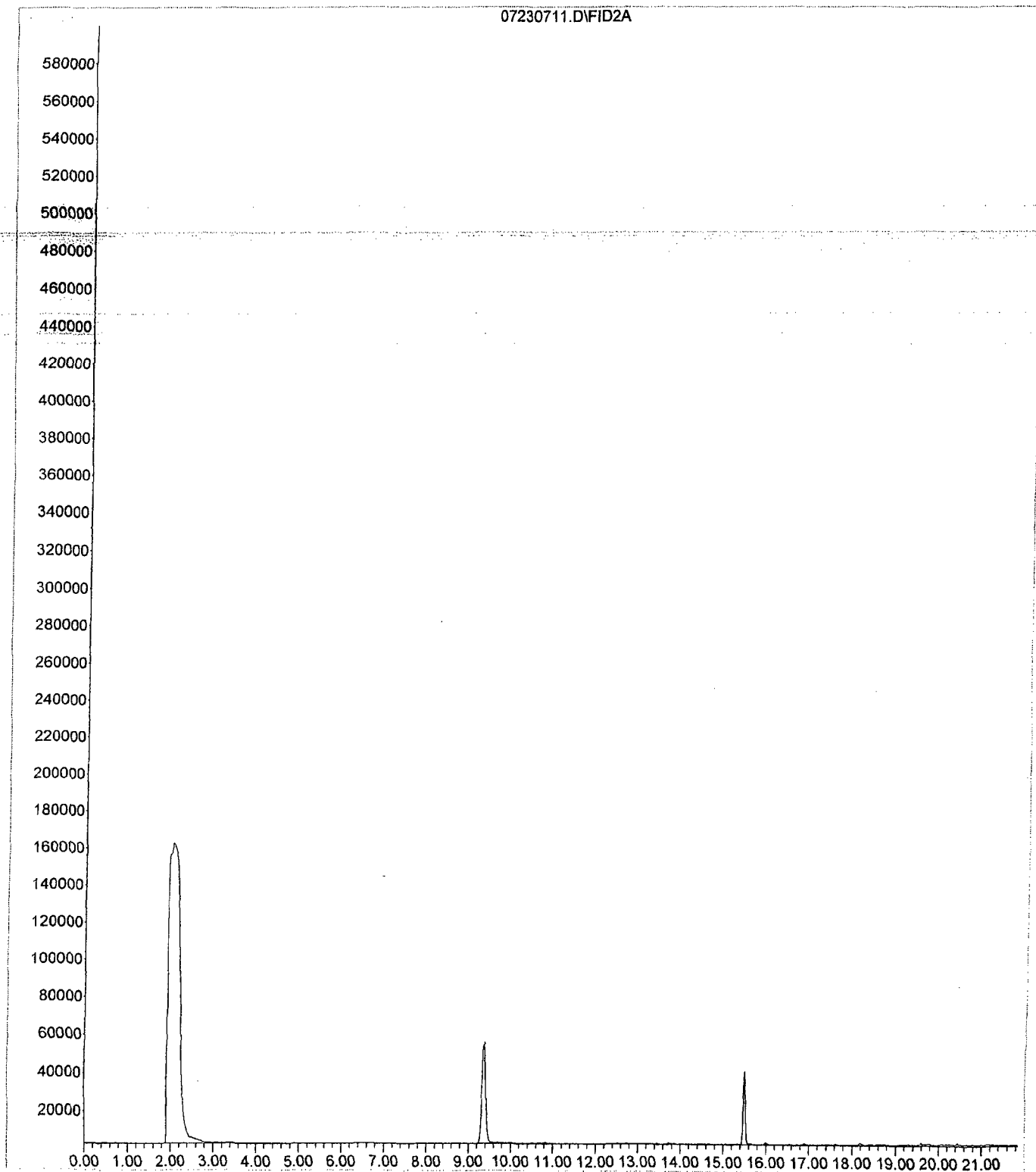
File : C:\HPCHEM\1\DATA\072307B\07230705.D
Operator : DRK
Acquired : 23 Jul 2007 11:10 am using AcqMethod BG071307.M
Instrument : GC-2 PID/
Sample Name: SOIL EXTR BLK 071707GS
Misc Info : 0.10/5ML SOIL EXTR
Vial Number: 5



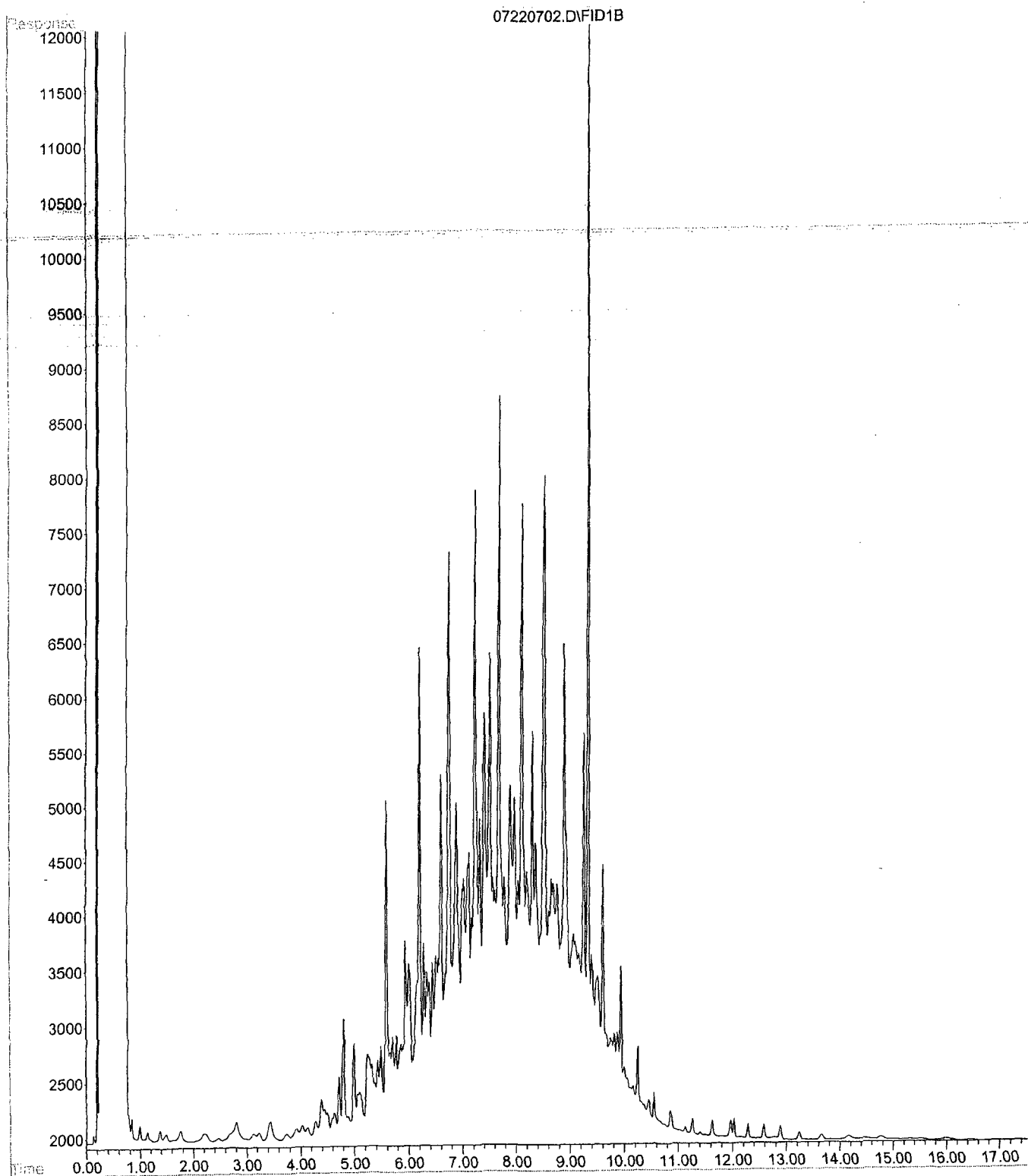
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Operator : DRK
Acquired : 23 Jul 2007 1:44 pm using AcqMethod BG071307.M
Instrument : GC-2 PID/
Sample Name: 706199-01 [1X] SOIL EXTR
Misc Info : 0.10/5ML SOIL EXTR
Vial Number: 10



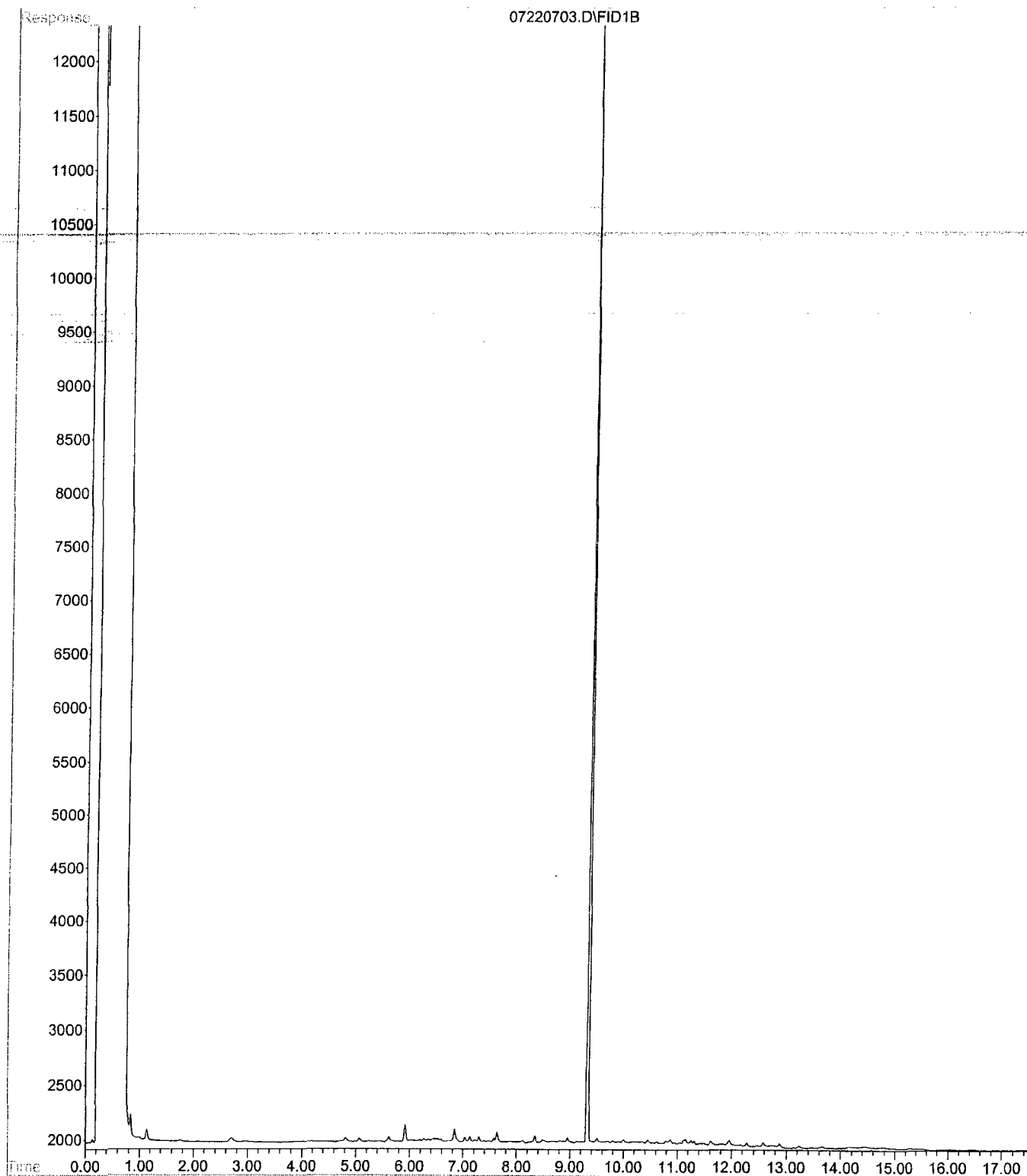
File : C:\HPCHEM\1\DATA\072307B\07230711.D
Operator : DRK
Acquired : 23 Jul 2007 2:15 pm using AcqMethod BG071307.M
Instrument : GC-2 PID/
Sample Name: 706199-02 [1X] SOIL EXTR
Misc Info : 0.10/5ML SOIL EXTR
Vial Number: 11



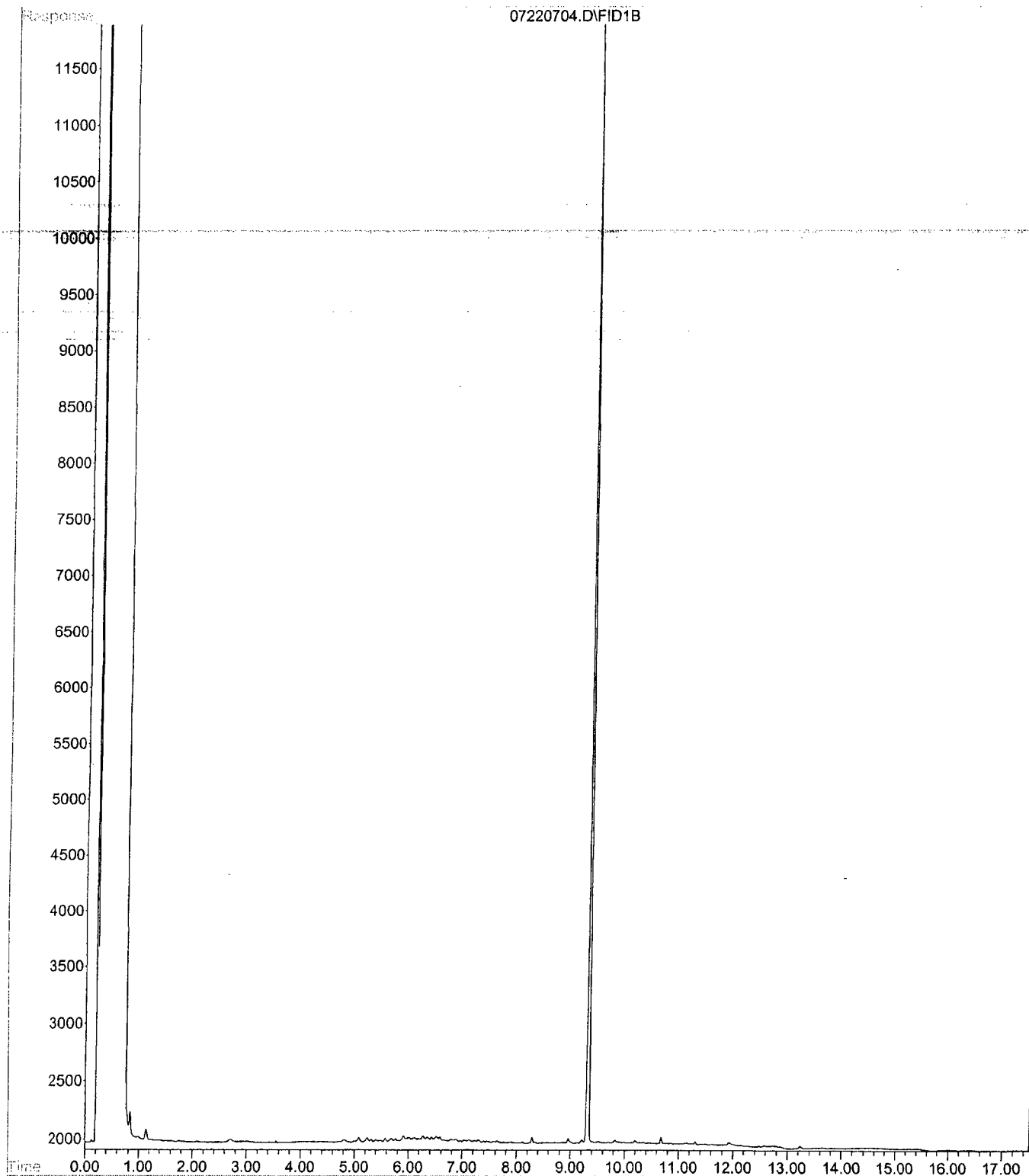
File : C:\HPCHEM\2\DATA\072207F\07220702.D
Operator : DRK
Acquired : 22 Jul 2007 1:42 am using AcqMethod DR070719.M
Instrument : FID-1
Sample Name: DRO CCV 200 UG/ML
Misc Info : GC5-68-12
Vial Number: 3



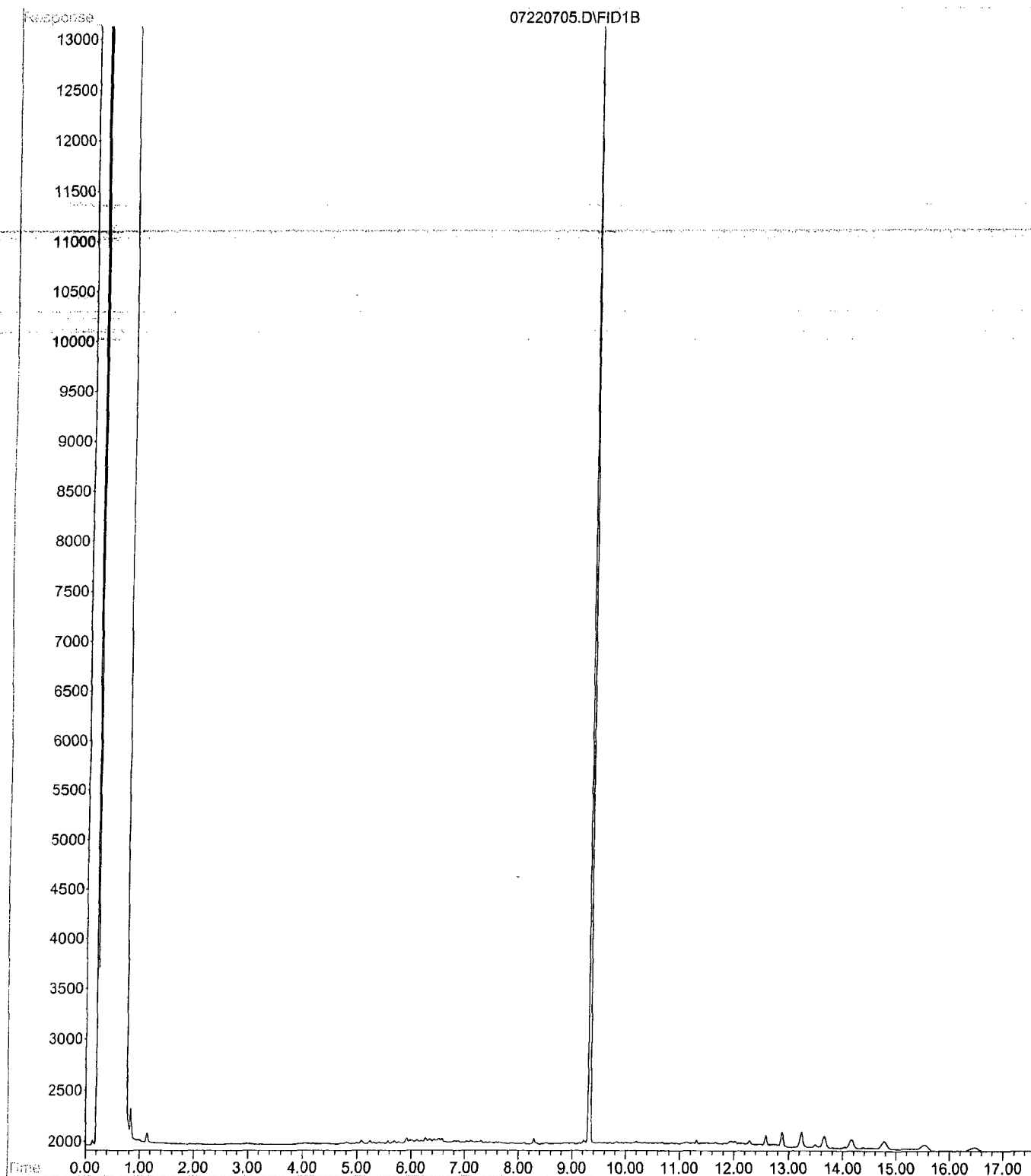
File : C:\HPCHEM\2\DATA\072207F\07220703.D
Operator : DRK
Acquired : 22 Jul 2007 2:09 am using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: DRO SOIL BLK 071707FS
Misc Info : 10G/10ML SH/DK 07-17-07 @ 1810
Vial Number: 76



File : C:\HPCHEM\2\DATA\072207F\07220704.D
Operator : DRK
Acquired : 22 Jul 2007 2:37 am using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: 706199-01 [1X] DRO SOIL
Misc Info : 10G/10ML SH/DK 07-17-07 @ 1810
Vial Number: 95



File : C:\HPCHEM\2\DATA\072207F\07220705.D
Operator : DRK
Acquired : 22 Jul 2007 3:04 am using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: 706199-02 [1X] DRO SOIL
Misc Info : 10G/10ML SH/DK 07-17-07 @ 1810
Vial Number: 96



January 8, 2008

RECEIVED

2008 JAN 10 AM 11 02

Mr. Wayne Price
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico, 87505

CERTIFIED MAIL 7004 1160 0007 4952 1418

RE: Third Quarter Sampling at Giant Industries Arizona, Inc. Centralized Surface Waste Management Landfarm Facility NM -02-0010

Dear Mr. Price,

On September 28, 2007, Lodestar Services, Inc. collected third quarter samples from Giant Industries Arizona, Inc.'s landfarm, permit number NM-02-0010, located in the NW/4 SE/4 of Section 16, Township 25 North, Range 12 West, NMPM, San Juan County, NM. One crude cell sample and one API cell sample was collected as shown on Figure 1. Each sample was collected using a hand powered auger from three feet beneath native ground surface. Each sample was placed in an eight ounce glass jar and stored on ice during shipping to Pinnacle Laboratories in Albuquerque, NM. Strict chain-of-custody procedures were followed during shipping. Pinnacle laboratories analyzed the samples for the following constituents: total petroleum hydrocarbons, benzene, toluene, ethyl benzene, and xylenes.

No target analytes were detected in the samples. Laboratory reports are included for your review.

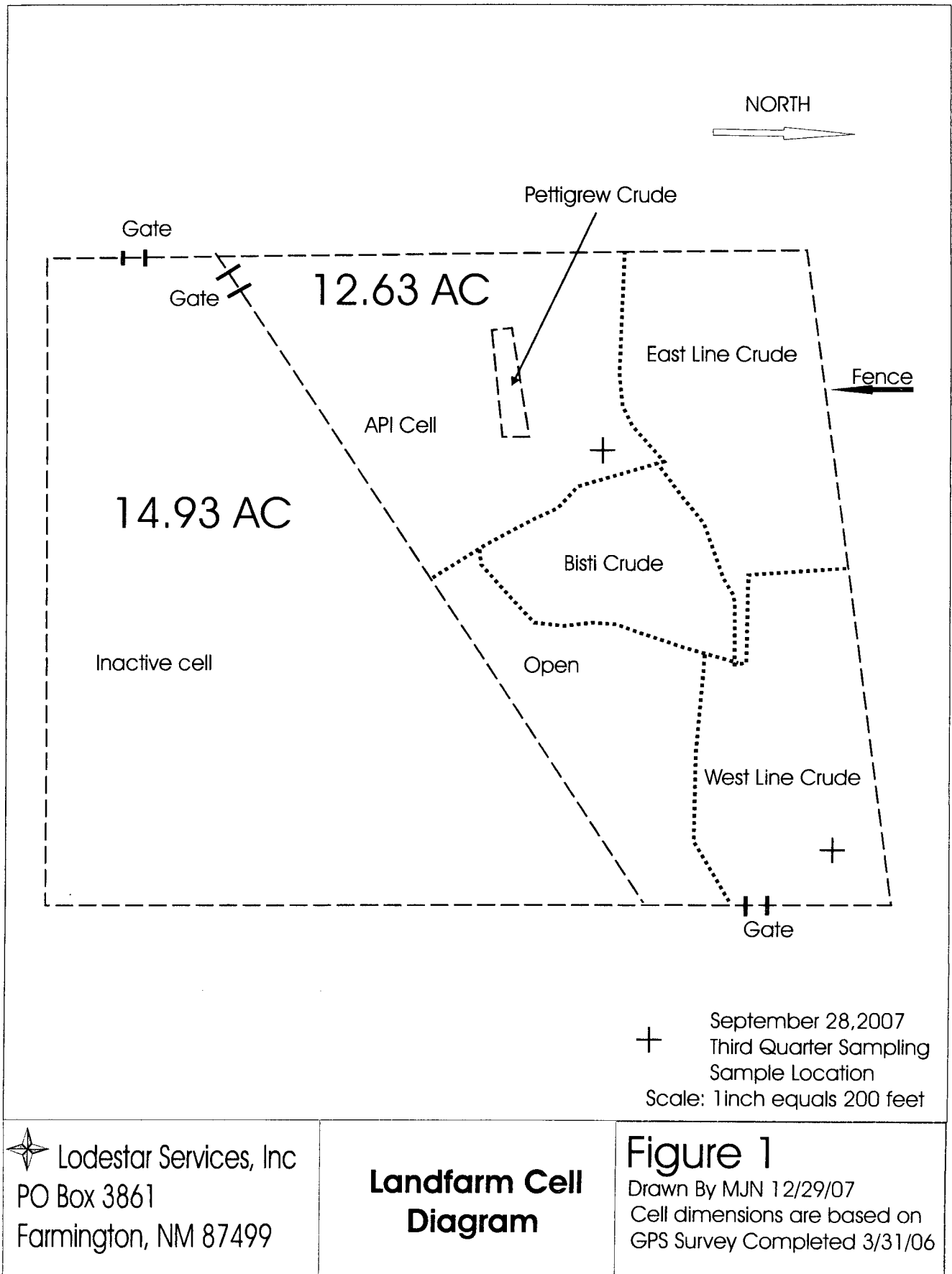
Should you have any questions or require additional information please do not hesitate to call me at (505) 632-4077.

**Respectfully Submitted,
Giant Industries Arizona, Inc.**

 for Bill Robertson

Bill Robertson
Safety, Environmental & Regulatory Manager

Cc. Mr. Dave Richards, Giant
Mr. Carlos Guerra, Giant
Ms. Ann Allen, Western Refining Company, L.P.
File





Pinnacle Lab ID number **710014**
October 15, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name GIANT LANDFARM
Project Number (NONE)

Attention: MARTIN NEE/BILL ROBERTSON

On 10/02/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

A handwritten signature in black ink, appearing to read "H. Mitchell Rubenstein".

H. Mitchell Rubenstein, Ph.D.
General Manager, Pinnacle Laboratories, Inc.

MR: jt

Enclosure



CLIENT	: LODESTAR	PINNACLE ID	: 710014
PROJECT #	: (NONE)	DATE RECEIVED	: 10/02/2007
PROJECT NAME	: GIANT LANDFARM	REPORT DATE	: 10/15/2007
PINNACLE			DATE
ID #	CLIENT DESCRIPTION	MATRIX	COLLECTED
710014 - 01	API CELL	NON-AQ	09/28/2007
710014 - 02	WEST LINE CELL	NON-AQ	09/28/2007

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B / 8015B GRO
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : GIANT LANDFARM

PINNACLE I.D. : 710014
ANALYST : ARM

SAMPLE		DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	API CELL	NON-AQ	09/28/07	10/05/07	10/05/07	1
02	WEST LINE CELL	NON-AQ	09/28/07	10/05/07	10/05/07	1
PARAMETER	DET. LIMIT	UNITS	API CELL	WEST LINE CELL		
FUEL HYDROCARBONS	10	MG/KG	< 10	< 10		
HYDROCARBON RANGE			C6-C10	C6-C10		
HYDROCARBONS QUANTITATED USING			GASOLINE	GASOLINE		
BENZENE	0.025	MG/KG	< 0.025	< 0.025		
TOLUENE	0.025	MG/KG	< 0.025	< 0.025		
ETHYLBENZENE	0.025	MG/KG	< 0.025	< 0.025		
TOTAL XYLENES	0.10	MG/KG	< 0.10	< 0.10		
SURROGATE:						
BROMOFLUOROBENZENE (%)			99	100		
SURROGATE LIMITS			(65 - 120)			

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY RESULTS
EXTRACTION BLANK

TEST	: EPA 8021B / 8015B GRO	PINNACLE I.D.	: 710014
BLANK I.D.	: 100507ES	DATE EXTRACTED	: 10/05/07
CLIENT	: LODESTAR	DATE ANALYZED	: 10/05/07
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	ANALYST	: ARM

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/KG	<10
HYDROCARBON RANGE		C6-C10
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.10
SURROGATE:		
BROMOFLUOROBENZENE (%)		104
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 710014
BATCH ID	: 100507ES	DATE EXTRACTED	: 10/05/07
CLIENT	: LODESTAR	DATE ANALYZED	: 10/05/07
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	UNITS	: MG/KG

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	50.0	51.0	102	50.7	101	1	(70 - 130)	20
HYDROCARBON RANGE		C6-C10							
HYDROCARBONS QUANTITATED USING GASOLINE									

CHEMIST NOTES:
N/A

% Recovery =
$$\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

RPD (Relative Percent Difference) =
$$\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY QUALITY CONTROL MS/MSD

TEST	: EPA 8015B GRO	PINNACLE I.D.	: 710014
SAMPLE ID	: 710005-01	DATE EXTRACTED	: 10/05/07
CLIENT	: LODESTAR	DATE ANALYZED	: 10/05/07
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	UNITS	: MG/KG

PROJECT NAME	SAMPLE		SPIKED	%	DUP	DUP	RESULTS		
PARAMETER	RESULT	CONC SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	50.0	50.5	101	53.6	107	6	(70 - 130)	20
HYDROCARBON RANGE	C6-C10								
HYDROCARBONS QUANTITATED USING GASOLINE									

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 710014
BATCH ID	: 100507ES	DATE EXTRACTED	: 10/05/07
CLIENT	: LODESTAR	DATE ANALYZED	: 10/05/07
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	0.992	99	0.941	94	5	(68 - 120)	20
TOLUENE	<0.025	1.00	1.05	105	0.984	98	6	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.05	105	0.991	99	6	(49 - 127)	20
TOTAL XYLENES	<0.10	3.00	3.17	106	2.99	100	6	(58 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY QUALITY CONTROL MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 710014
SAMPLE ID	: 710005-01	DATE EXTRACTED	: 10/05/07
CLIENT	: LODESTAR	DATE ANALYZED	: 10/05/07
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	0.950	95	0.951	95	0	(68 - 120)	20
TOLUENE	<0.025	1.00	0.996	100	1.01	101	1	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	0.997	100	1.01	101	1	(49 - 127)	20
TOTAL XYLENES	<0.10	3.00	3.01	100	3.04	101	1	(58 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
 CLIENT : LODESTAR
 PROJECT # : (NONE)
 PROJECT NAME : GIANT LANDFARM

PINNACLE I.D. : 710014
 ANALYST : STH

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	API CELL	NON-AQ	09/28/2007	10/04/2007	10/06/2007	1
02	WEST LINE CELL	NON-AQ	09/28/2007	10/04/2007	10/06/2007	1

PARAMETER	DET. LIMIT	UNITS	API CELL	WEST LINE CELL
FUEL HYDROCARBONS, C10-C22	10	MG/KG	< 10	< 10
FUEL HYDROCARBONS, C22-C36	10	MG/KG	< 10	< 10

SURROGATE:

O-TERPHENYL (%) 95 110
 SURROGATE LIMITS (70-130)

CHEMIST NOTES:
 N/A

GAS CHROMATOGRAPHY RESULTS
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 710014
BLANK I.D.	: 100407FS	DATE EXTRACTED	: 10/04/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 10/05/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	ANALYST	: STH

PARAMETER	UNITS	
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:
O-TERPHENYL (%) 103
SURROGATE LIMITS (70-130)

CHEMIST NOTES:
Batch ran past midnight on 10/05/07 into 10/06/07.

GAS CHROMATOGRAPHY RESULTS
EXTRACTION BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 710014
BLANK I.D.	: 100407FS	DATE EXTRACTED	: 10/04/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 10/08/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	ANALYST	: STH

PARAMETER	UNITS	
FUEL HYDROCARBONS, C10-C22	MG/KG	< 10
FUEL HYDROCARBONS, C22-C36	MG/KG	< 10

SURROGATE:		
O-TERPHENYL (%)		99
SURROGATE LIMITS	(70-130)	

CHEMIST NOTES:

GAS CHROMATOGRAPHY QUALITY CONTROL LCS/LCSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 710014
BATCH ID	: 100407FS	DATE EXTRACTED	: 10/04/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 10/08/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	UNITS	: MG/KG

PARAMETER	BLANK RESULT	CONC SPIKE	SPIKED BLANK	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	188	94	200	100	6	(75-125)	20
HYDROCARBON RANGE		C10-C32							
HYDROCARBONS QUANTITATED USING DIESEL FUEL									

CHEMIST NOTES:
N/A

% Recovery = $\frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$

RPD (Relative Percent Difference) = $\frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$

GAS CHROMATOGRAPHY QUALITY CONTROL MS/MSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 710014
SAMPLE ID	: 710014-01	DATE EXTRACTED	: 10/04/2007
CLIENT	: LODESTAR	DATE ANALYZED	: 10/06/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: GIANT LANDFARM	UNITS	: MG/KG

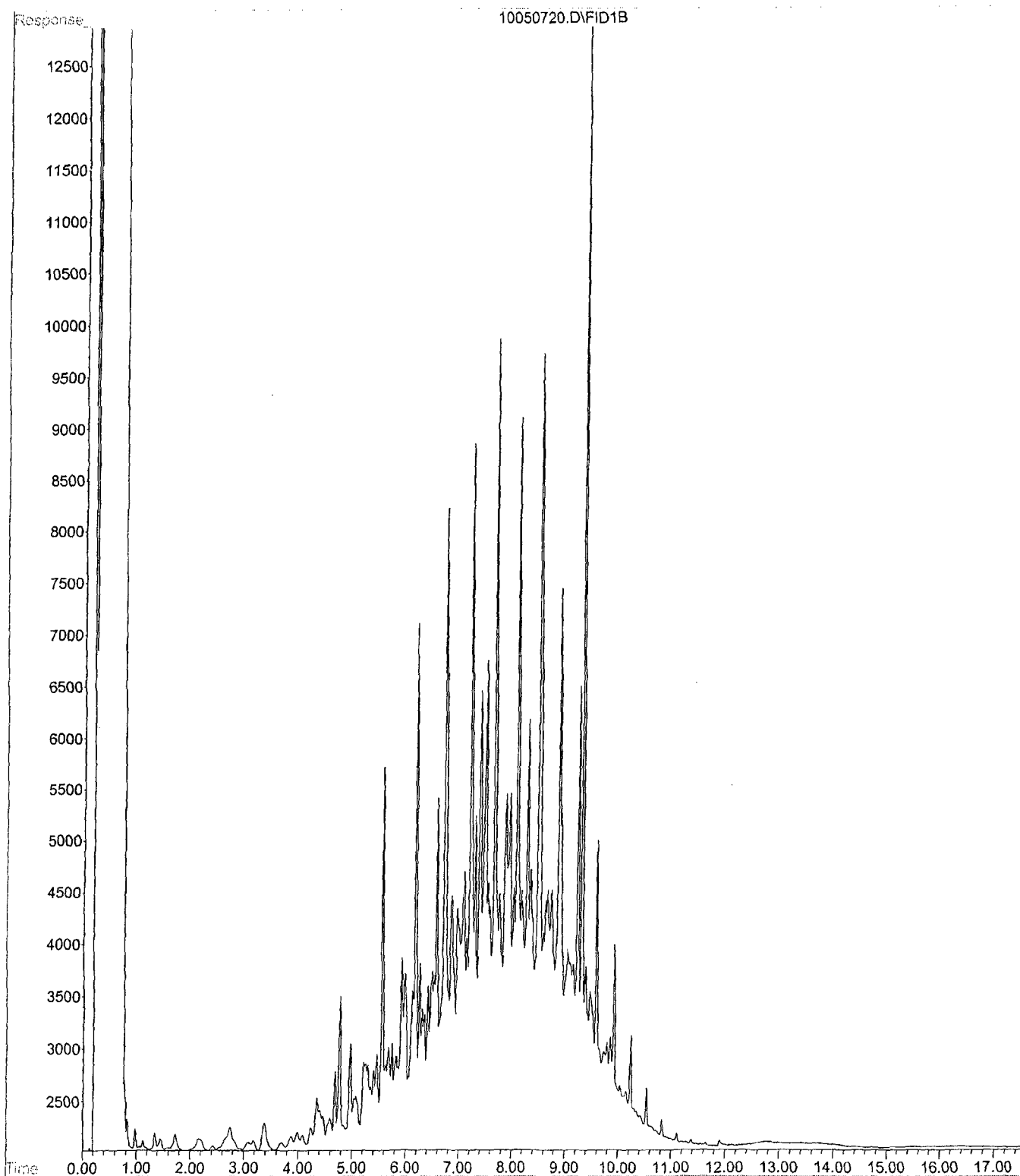
PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<10	200	227	114	214	107	6	(70-130)	20
HYDROCARBON RANGE	C10-C32								
HYDROCARBONS QUANTITATED USING DIESEL FUEL									

CHEMIST NOTES:
N/A

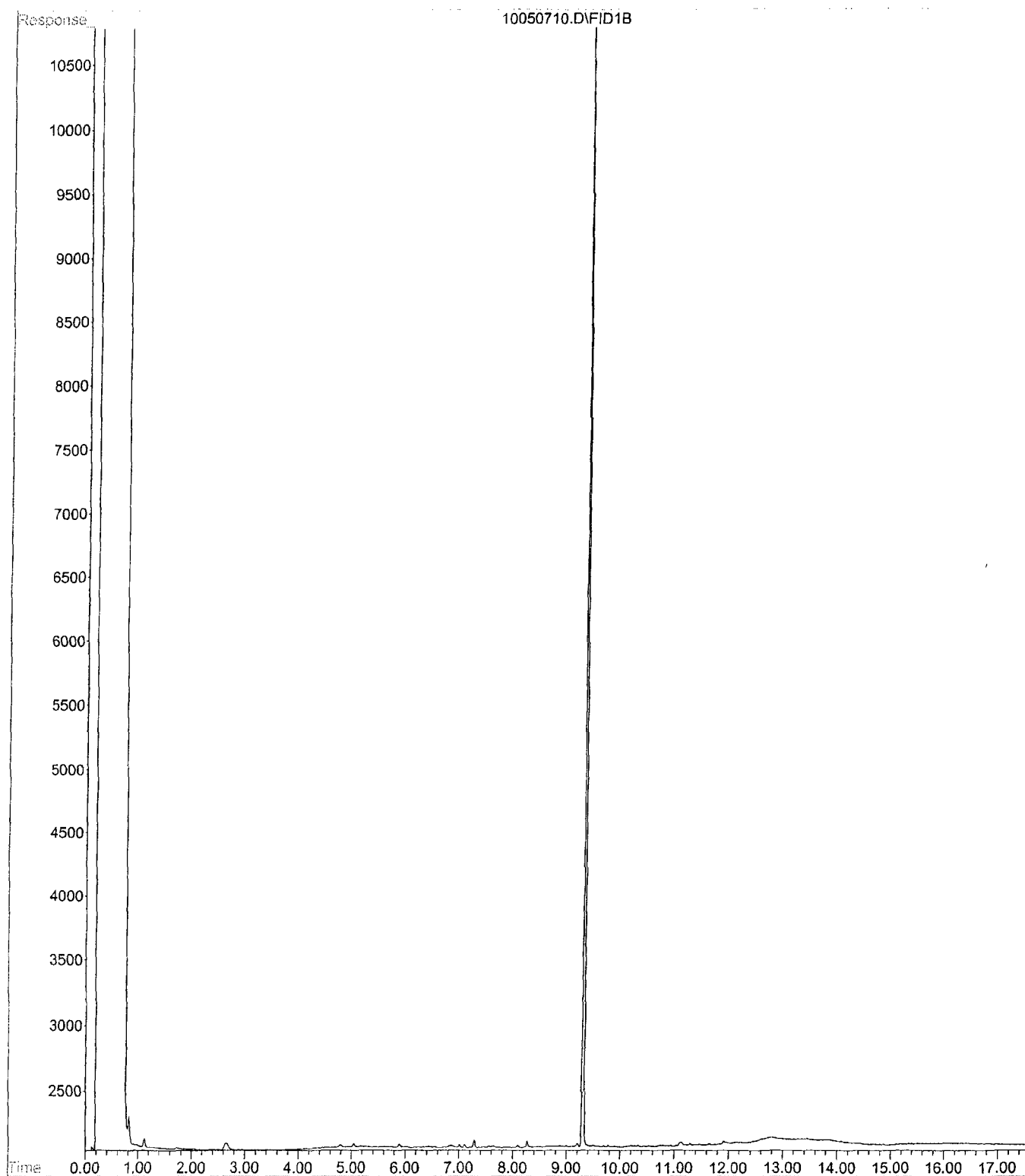
$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

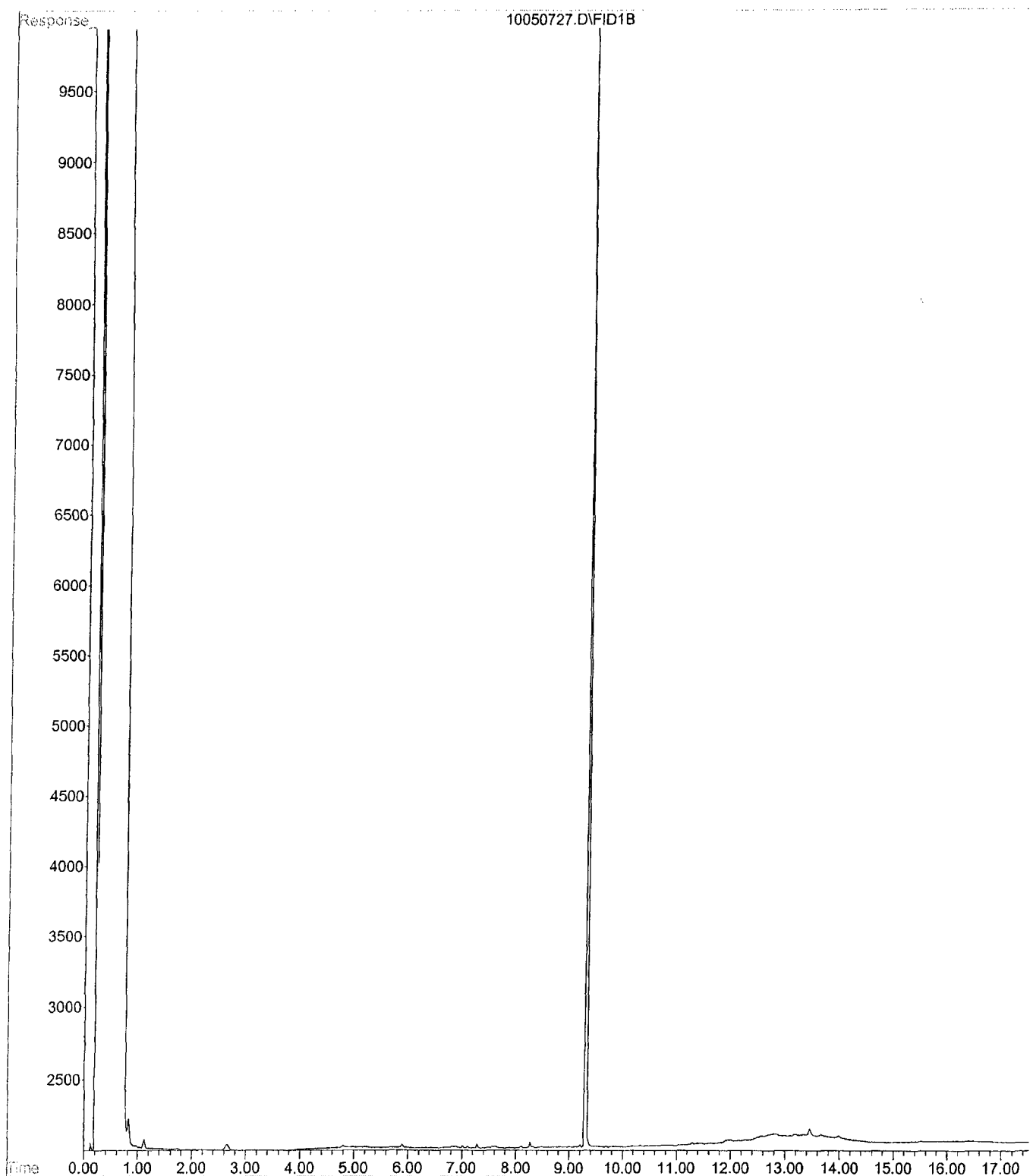
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Operator : STH
Acquired : 5 Oct 2007 10:31 pm using AcqMethod DR070719.M
Instrument : FID-1
Sample Name: DR0 CCV 200 UG/ML
Misc Info : GC5-70-18
Vial Number: 4



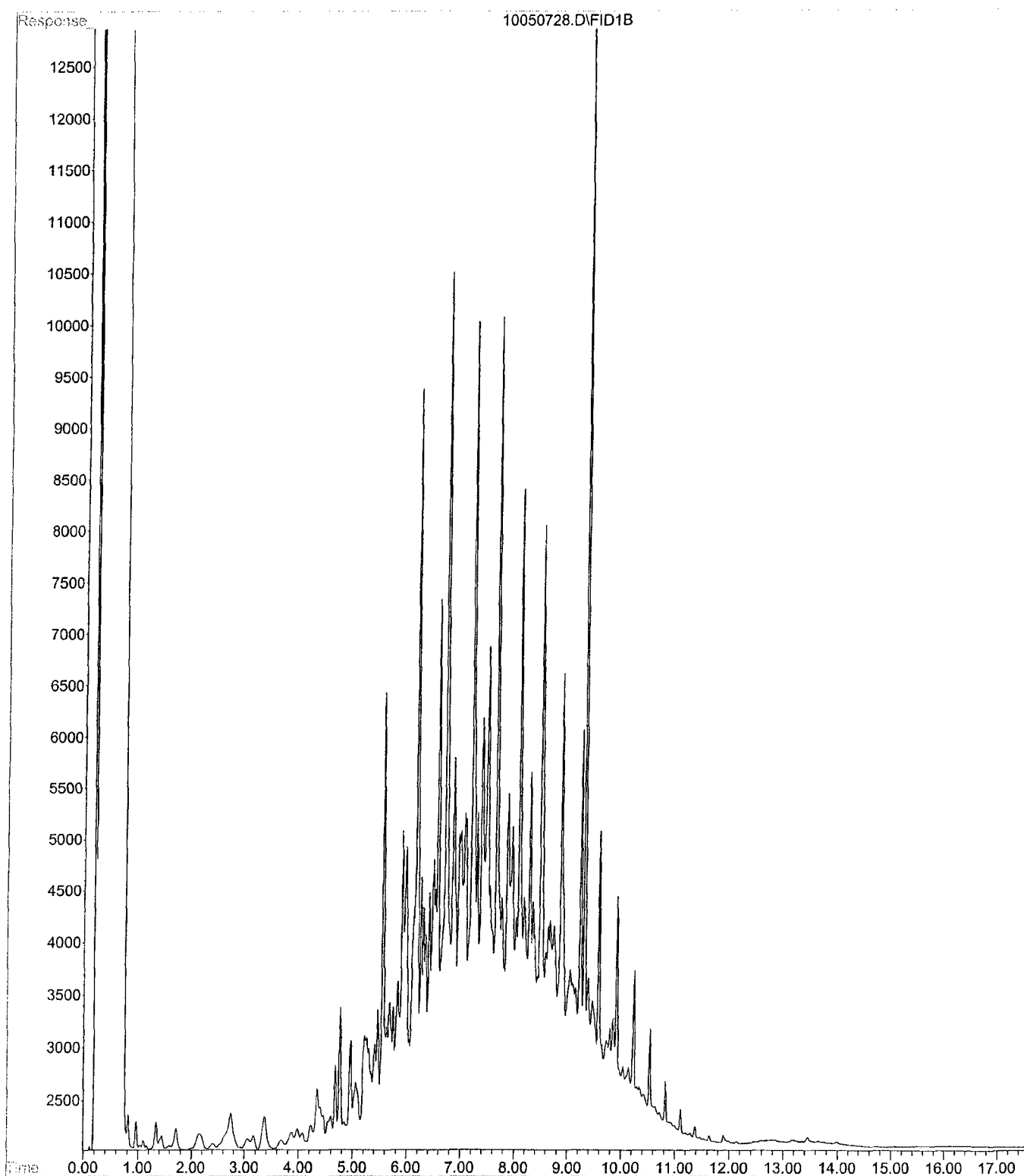
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Operator : STH
Acquired : 5 Oct 2007 5:58 pm using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: DRC SOIL BLK 1004
Misc Info : 10/10ML STHon10/04/07@1155
Vial Number: 9



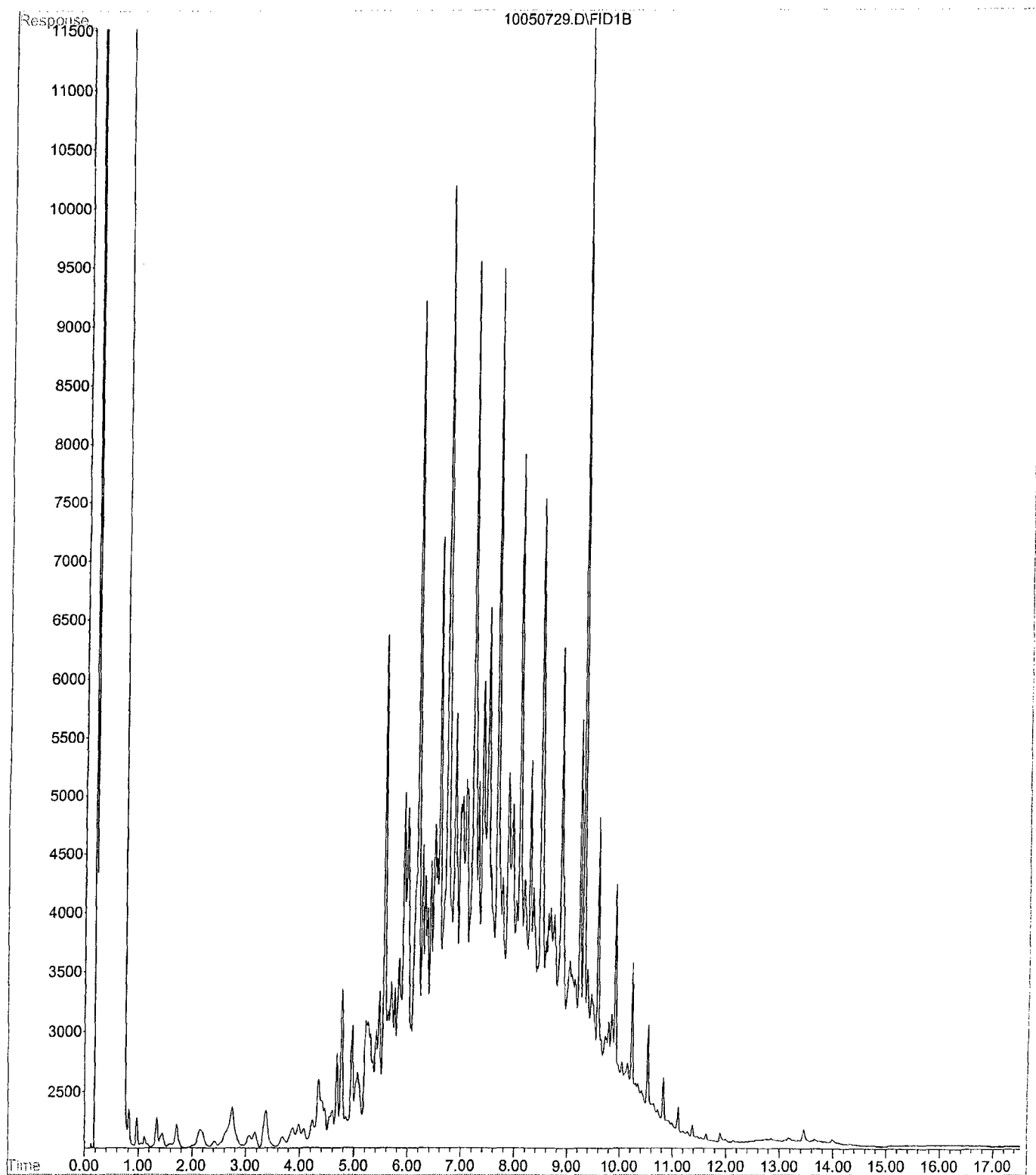
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Operator : STH
Acquired : 6 Oct 2007 1:43 am using AcqMethod DR070719.M
Instrument : FID-1
Sample Name: 710014-01 [1x] SOIL
Misc Info : 10/10ML STHon10/04/07@1155
Vial Number: 25



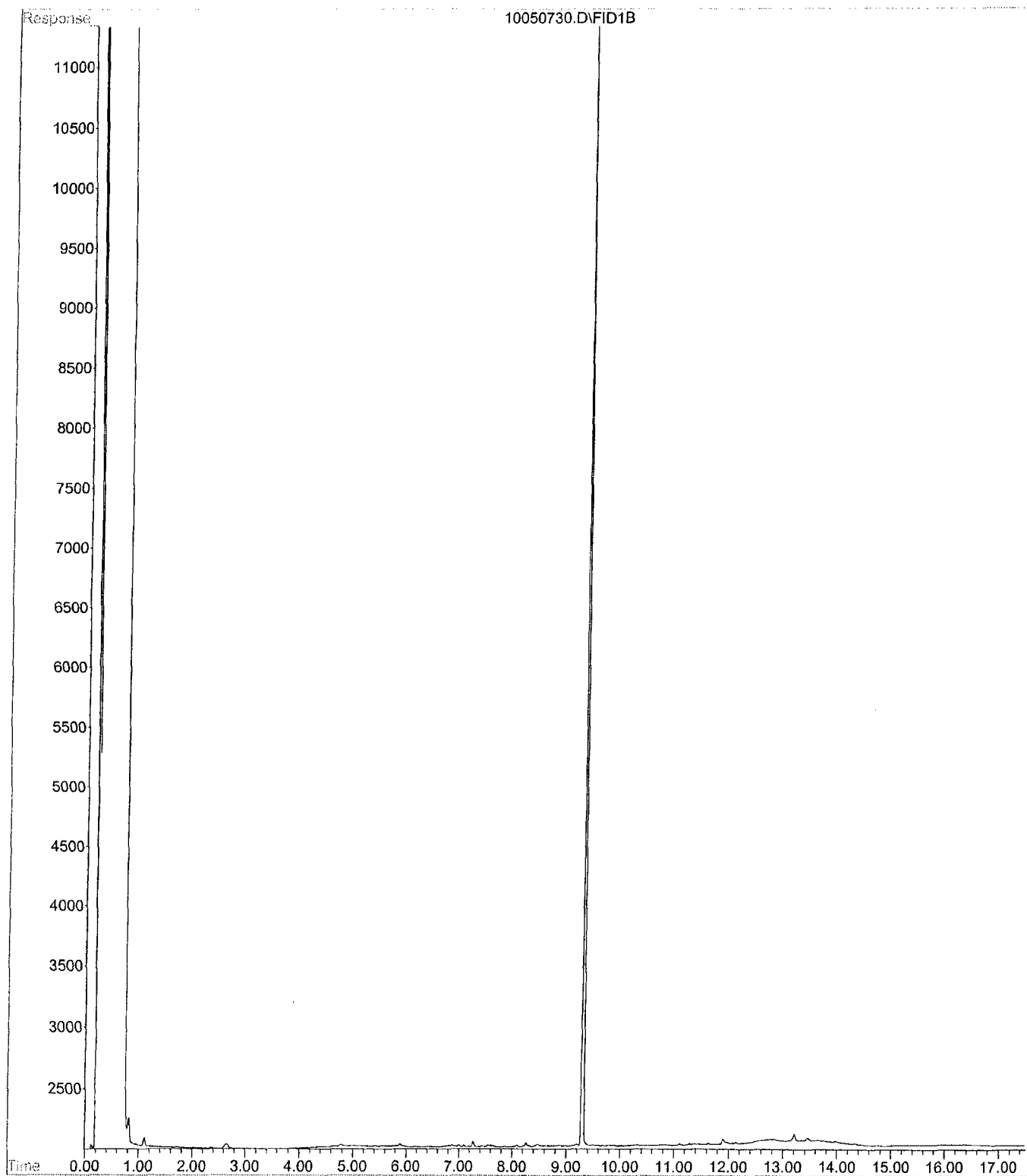
File : C:\HPCHEM\2\DATA\100507F\10050728.D
Operator : STH
Acquired : 6 Oct 2007 2:11 am using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: 710014-01 [1X] MSPK
Misc Info : 10/10ML STHon10/04/07@1155
Vial Number: 26



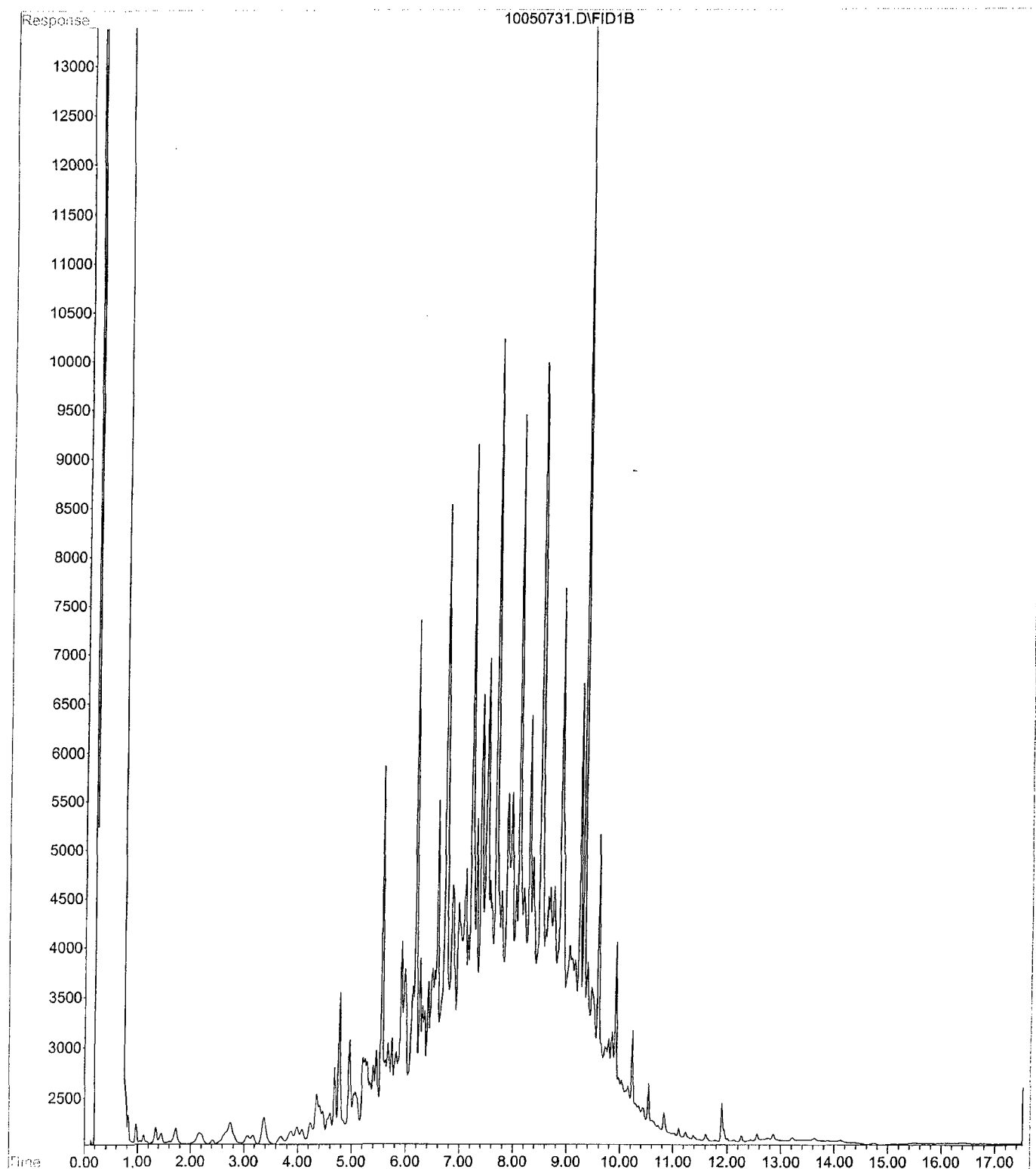
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Operator : STH
Acquired : 6 Oct 2007 2:38 am using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: 710014-01 [1X] MSPD
Misc Info : 10/10ML STHon10/04/07@1155
Vial Number: 27



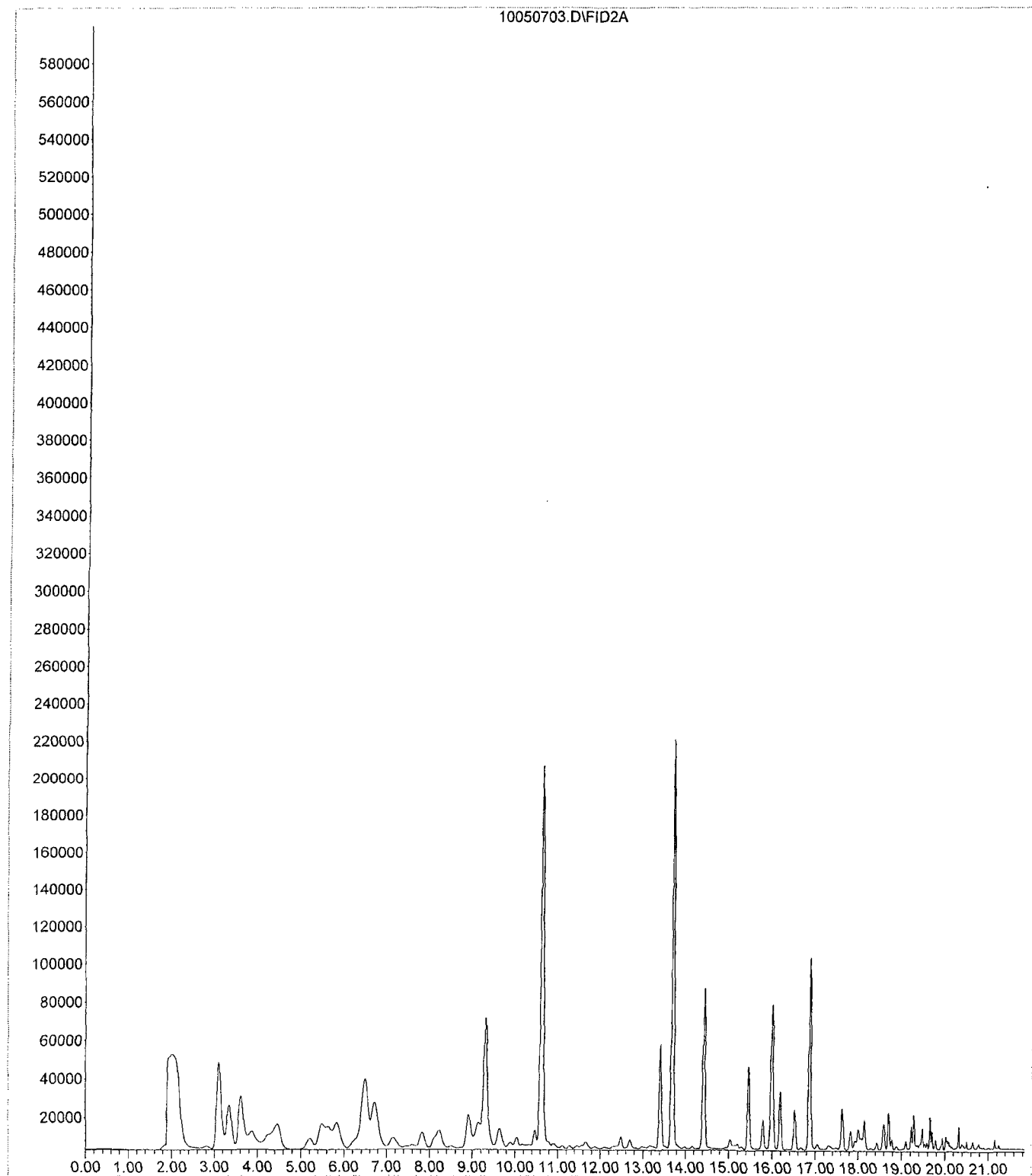
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Operator : STH
Acquired : 6 Oct 2007 3:06 am using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: 710014-02 [1X] SOIL
Misc Info : 10/10ML STHon10/04/07@1155
Vial Number: 28



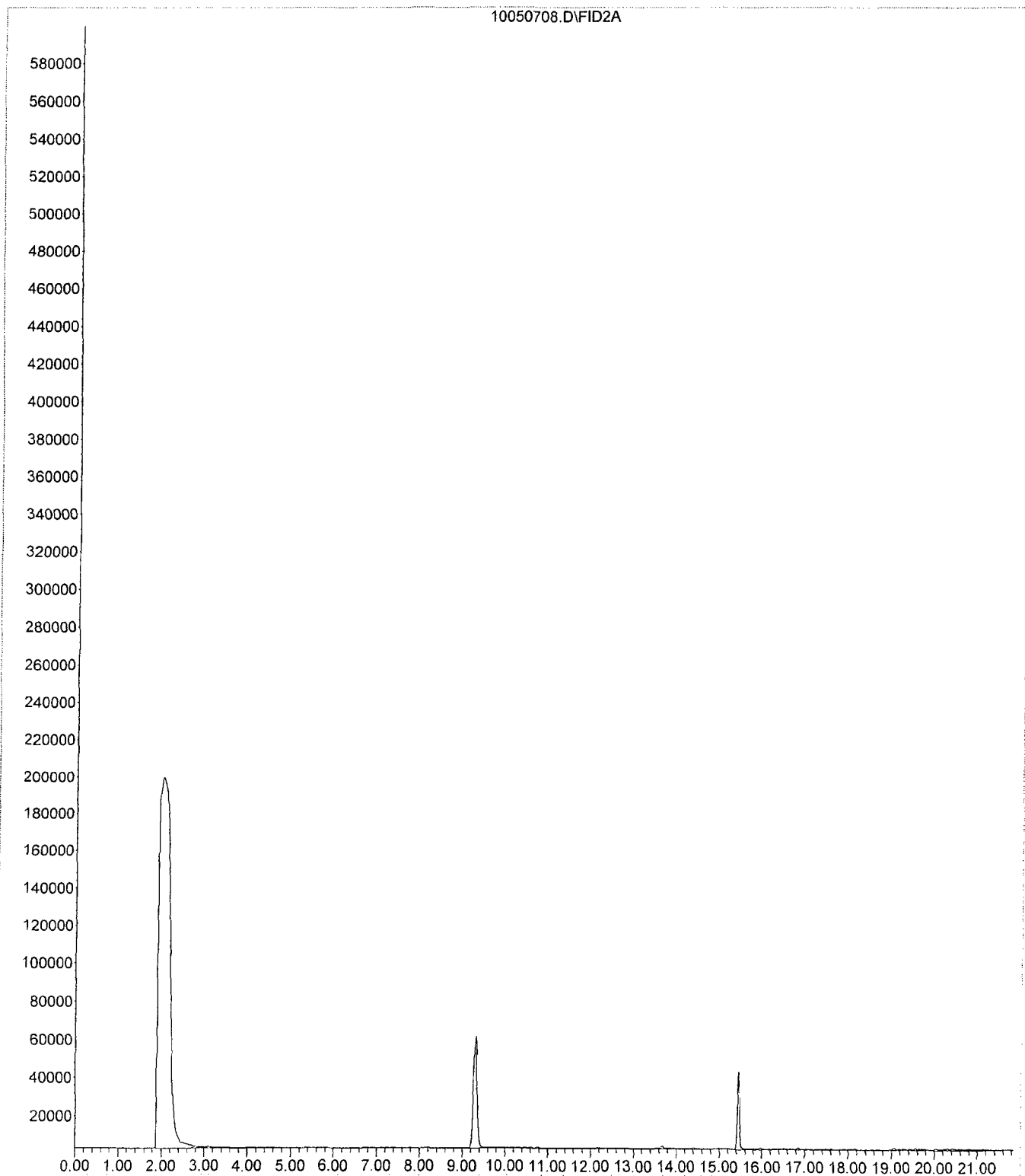
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Operator : STH
Acquired : 6 Oct 2007 3:33 am using AcqMethod DRO70719.M
Instrument : FID-1
Sample Name: DRO CCV 200 UG/ML
Misc Info : GC5-70-18
Vial Number: 3



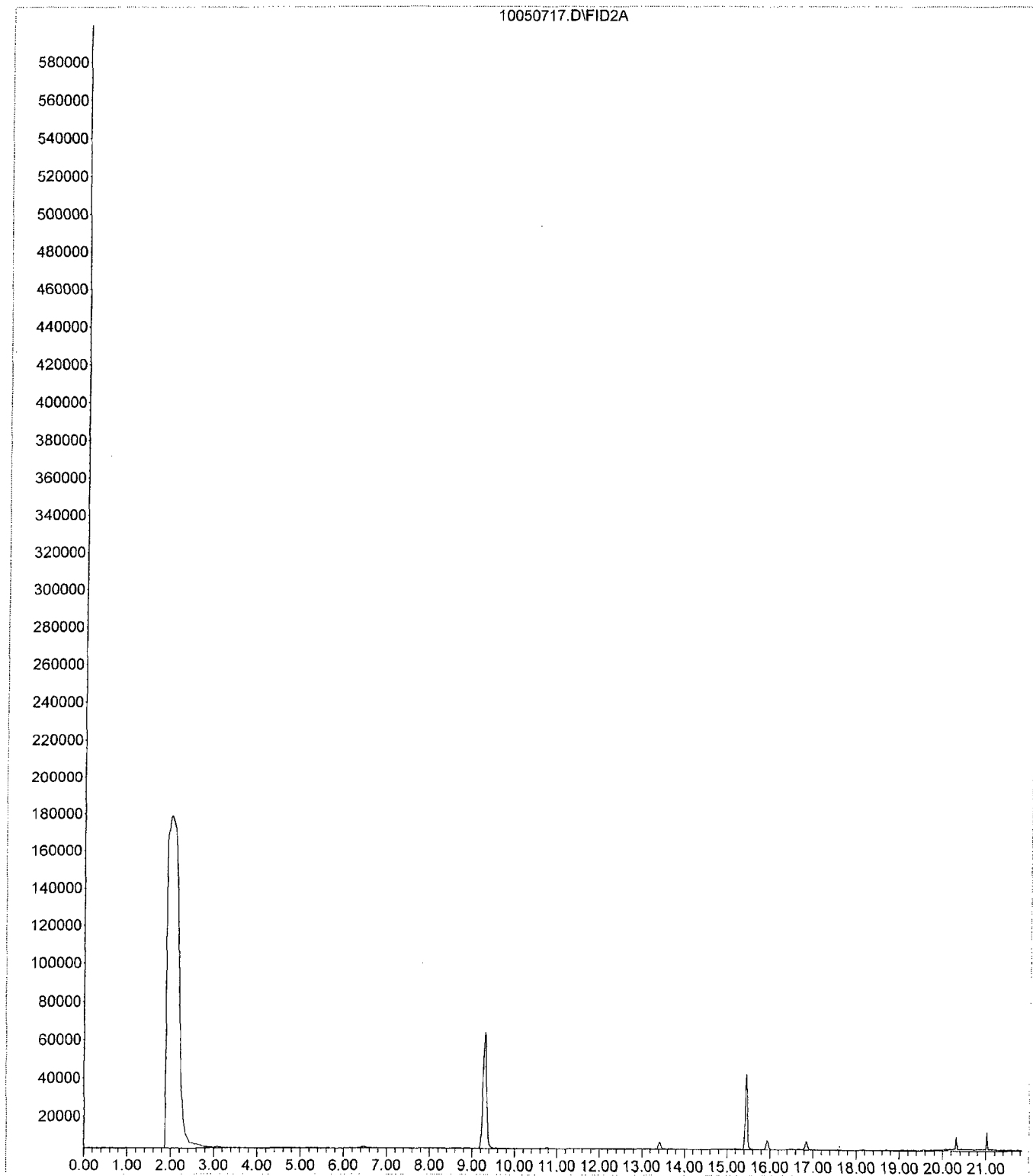
File : C:\HPCHEM\1\DATA\100507B\10050703.D
Operator : ARM
Acquired : 5 Oct 2007 11:15 am using AcqMethod BG100207.M
Instrument : GC-2 PID/
Sample Name: 100507.V1 GRO CCV
Misc Info : 10UL MS5-75-16
Vial Number: 3



File : C:\HPCHEM\1\DATA\100507B\10050708.D
Operator : ARM
Acquired : 5 Oct 2007 2:01 pm using AcqMethod BG100207.M
Instrument : GC-2 PID/
Sample Name: 100507.B1 RBLK EXT SOIL
Misc Info : 0.10ML/5ML + 10UL MS5-66-17 EXT SOIL
Vial Number: 8



File : C:\HPCHEM\1\DATA\100507B\10050717.D
Operator : ARM
Acquired : 5 Oct 2007 6:56 pm using AcqMethod BG100207.M
Instrument : GC-2 PID/
Sample Name: 710014.01 [1X] 0928 EXT SOIL
Misc Info : 0.10ML/5ML + 10UL MS5-66-17 EXT SOIL
Vial Number: 1



File : C:\HPCHEM\1\DATA\100507B\10050718.D
Operator : ARM
Acquired : 5 Oct 2007 7:27 pm using AcqMethod BG100207.M
Instrument : GC-2 PID/
Sample Name: 710014.02 [1X] 0928 EXT SOIL
Misc Info : 0.10ML/5ML + 10UL MS5-66-17 EXT SOIL
Vial Number: 2

